VOCO’s reputation for being a global leader in the manufacturing of dental materials and technologies can be traced back to its early beginnings over 40 years ago. Based out of Cuxhaven, Germany, VOCO performs extensive research and development in the fields of dental restoratives, adhesives and many other materials and technologies, setting new standards in the creation of innovative dental products and application aids to provide better solutions to dentists throughout the world and here in North America.

VOCO researchers partner and maintain close contact with over 150 universities and research institutes worldwide, and have led several research projects co-sponsored by the German Federal Ministry of Research. This has enabled VOCO to act as a technological forerunner in several material development areas. A leader in Nano-technology, VOCO’s products have received high praise and recognition in North America with 4 and 5 star ratings from the The Dental Advisor, Reality and other independent institutes.

As a global player, VOCO exports to over 100 countries on 6 continents. In the United States, VOCO is proud to offer you products through Patterson, Henry Schein, Benco and Burkhart. Most locations in the US can enjoy next-day delivery through these fine distributors.

In Canada, VOCO products are available through Henry Schein Dental, Patterson Dental, Sinclair Dental, K-Dental and Central Dental.

We are proud to offer you Great Products, Great Quality, Great Support and Great Value.

For detailed information please visit: vocoamerica.com

To order or for more information, contact your local VOCO representative.

1-888-658-2584

Very Truly Yours,

VOCO: INNOVATIVE SOLUTIONS

Innovation
Precision
Excellence

Made in Germany
PREVENTIVE CARE

Protective Dental Care
- Remin Pro

Fluoride Varnish
- VOCO Profluorid Varnish
- VOCO Profluorid L
- Bifluorid

Desensitizer/Sealant
- Admira Protect
- Grandio Seal

DIRECT RESTORATION

Liner/Etchant
- Calcicur
- Calcimol
- Calcimol LC
- Ionoseal
- Vococid

Total-Etch Adhesive
- Admira Bond

Self-Etch Adhesive
- Futurabond DC
- Futurabond M+
- Futurabond U

Nano-Hybrid Composite
- GrandioSO
- GrandioSO x-tra
- GrandioSO Light Flow
- GrandioSO Flow
- GrandioSO Heavy Flow
- Grandio
- Amaris
- Amaris Gingiva

NANO-ORMOCER®
- Admira Fusion
- Admira Fusion Flow

INDIRECT RESTORATION

VPS Impression Materials
- V-Posil Heavy Soft Fast
- V-Posil Putty Fast
- V-Posil Light Fast
- V-Posil X-Light Fast
- V-Posil Mono Fast
- VOCO Dynamic Dispenser

Retraction Paste
- VOCO Retraction Paste

Bite Registration
- Registrafoto x-tra
- Registrafoto Clear

Temporary Filling
- Clip
- Clip Flow

Temporary Cement
- Proviol
- Proviol QM Plus
- Proviol QM Aesthetic
- Bifix Temp

Temporary C & B
- Structur 2 SC
- Structur 3
- Structur Premium

Post and Core
- Grandio Core Dual Cure
- Rebilda DC
- Rebilda Post
- Rebilda Post GT

Implant Pick-Up System
- Quick Up

Permanent Cement
- Ceramic Bond
- Bifix SE
- Bifix QM
- Meron/Meron Plus
- Meron Plus QM

Orthodontic Cement
- BrackFix

Direct Denture Relining
- Ufi Gel SC
- Ufi Gel hard C

Control Silicone
- Fit Test C & B

DIGITAL TECHNOLOGY

CAD/CAM blocs / disc
- Grandio blocs Universal
- Grandio blocs PlanMill®
- Grandio disc
- Structur CAD

Digital Dentures
- CediTEC® Adhesive
- CediTEC® DT Denture Teeth
- CediTEC® Denture Base
- V-Print® dentbase

V-Print Materials
- V-Print splint comfort
- V-Print splint
- V-Print c & b temp
- V-Print SG
- V-Print Try-In
- V-Print cast
- V-Print tray
- V-Print model 2.0
- V-Print model fast

Polymerization Unit
- OtoFlash

TIPS, LAB, DISPENSERS, ETC.

Cleaning Agent / Custom Trays
- Traypurol tabs
- Individo Lux
- Profibase

Devices & Disposables
- Mixing Pallet, Pele Tim, Dispenser, Applicator, Activator
- Mixing Tips
- Intraoral tips
- Tims, Brushes, Polishing Disc, etc.
The following icons enable you to quickly find the right product, make a first assessment and judgment within seconds, and quickly gain a general overview. For detailed information regarding the use of any product, please consult the instructions for use.

**Material composition**
Both the fillers and the resin matrix of this product are based purely on silicon oxide.

**Material composition**
This product is based on nano-hybrid technology.

**Curing of the material**
This product either cures through exposure to light or it self-cures chemically.

**Curing of the material**
This product cures through exposure to light. The time indicated represents the average time.

**Method of application**
Preparatory conditioning of the tooth surface is not required before application of this material to the tooth.

**Method of application**
Separate etching of the tooth surface is necessary before the adhesive system (bond) is used.

**Method of application**
No separate etching of the tooth surface is required before the adhesive system (bond) is used.

**Indications**
According to the indications, this product is suitable for fillings of the cavity classes listed.

**Volumetric shrinkage**
During setting, this product is subject to the volume shrinkage indicated in percent, measured as a change in percent of total volume.

**Filler content**
This product has a defined filler content, which is indicated in percent by weight.

**Hardness of the material**
This product possesses the shore A hardness shown.

**Radiopacity**
After completion of the working process, this material is highly radiopaque. The value shown indicates the radiopacity in percent relating to the aluminium equivalent.

**Working directions**
This material is suitable for bulk fillings with a maximum layer thickness of 4 mm.

**Fluoride content**
This product contains the level of fluoride indicated.

**Material compatibility**
This product can be used with the materials indicated.

**Application of the material**
This material is available in the non-running, non-dripping NDT®-syringe.

**CAD/CAM**
This product is suitable for use in digital dentistry.

**Indication of retention time in the mouth**
This product is retained in the mouth for the minimum duration shown.

**Indication of working time**
The maximum extraoral working time for this product is as shown.

**Non-sedimenting**
This product is non-sedimenting. The product enables additive manufacturing of objects from homogeneous solution throughout the entire printing process.

**Application of the material**
When heated, the viscosity of this material changes, thus uniting the respective advantages of flowable and sculptable materials. Specifically designed to be heated for use.

**Application of the material**
This material is automatically mixed in the correct ratio before application.
PREVENTIVE CARE

Protective Dental Care
- Remin Pro 6

Fluoride Varnish
- VOCO Profluorid Varnish 7
- VOCO Profluorid L 8
- Bifluorid 10 9

Desensitizer/Sealant
- Admira Protect 10
- Grandio Seal 10
Remin Pro
Triple protective dental tooth cream
without the risk of milk protein allergies

Indications
After whitening
After professional cleaning
Prevention and control of hypersensitivities

Advantages
• Triple protection of fluoride, Nano-hydroxyapatite (calcium and phosphate) and Xylitol
• Nano-hydroxyapatite restores the mineral balance
• 61% more fluoride (1,450 ppm) than the leading brand
• Contains Xylitol known for its cariostatic properties
• No risk of milk protein allergies as with other brands
• Fast-acting and great-tasting
• Easy to apply with a finger, soft toothbrush or in a tray
• CDT Insurance Code 9910 can be used as an application for desensitizing medicament¹

Presentation
| REF 2003 12 × 40 g tube melon |
| REF 2004 12 × 40 g tube mint |
| REF 2005 12 × 40 g tube strawberry |
| REF 2006 12 × 40 g tube (4 each × melon, mint, strawberry) |
| REF 2007 3 × 40 g tube (1 each × melon, mint, strawberry) |

Not available in Canada!

How to apply Remin Pro

Applying Remin Pro with Your Finger or Cotton Swab
Apply a pea sized portion using your finger or cotton swab making sure to cover all tooth surfaces. Expel any leftover material. Remin Pro should remain in the mouth for 3 minutes, uninterrupted.

Applying Remin Pro with Your Toothbrush
Apply a pea sized portion to a soft toothbrush and lightly brush across all tooth surfaces. Expel any leftover material. Remin Pro should stay in the mouth for 3 minutes, uninterrupted.

Applying Remin Pro in a Custom Tray
Apply Remin Pro in a custom tray as directed by your dental professional.

Nano-hydroxyapatite – fills superficial enamel lesions
Xylitol – for bacteriostatic effect
Fluoride – open dentin tubules are sealed

¹ License to use the ADA CDT codes is granted to Kathy S. Forbes, RDH, BS. The ADA is the exclusive owner and copyright holder of the CDT (“Code”). / Photo courtesy of PD Dr. T. Ploch, University Hospital, Heidelberg – Germany
VOCO Profluorid® Varnish
Easy, tasteful and transparent
5% Sodium Fluoride Varnish

Indications
Treatment of hypersensitive teeth
Sealing the dentinal tubules for cavity preparations or on sensitive root surfaces

Advantages
- Easy non-messy SingleDose delivery system
- No yellow discoloration of teeth
- In seven flavors without the unpleasant aftertaste of some other brands
- Adheres well to moist surface and sets quickly in seconds after contact with saliva
- High immediate fluoride release to relieve hypersensitivity
- Enhanced flow characteristics allow Profluorid Varnish to reach areas traditional varnishes may miss
- Contains Xylitol
- Does not contain: tree nuts, peanuts, corn, shellfish, eggs, milk protein, soy, gluten, triclosan, petroleum, red dye/artificial coloring, saccharin or aspartame

USA:
- CDT Insurance Code 1206 can be used for topical application of fluoride varnish¹
- CPT Insurance Code 99188 for medical claims

CANADA:
- Code CDHA 00611
- Code CDA 12113

Application of Profluorid Varnish
**VOCO Profluorid® L**

Clear 5% Sodium Fluoride Liquid Varnish – specially formulated not to interfere with bleaching procedures

Not available in Canada!

### Indications
- Treatment of hypersensitive teeth
- Sealing of the dentinal tubules for cavity preparations or on sensitive root surfaces
- Cavity liner under amalgam restorations
- Desensitizer before and after bleaching

### Advantages
- Profluorid L’s synthetic resin matrix ensures effective desensitizing during bleaching without interfering with the bleaching results. Your patients will feel immediate relief, which makes Profluorid L the product of choice for each bleaching session.
- Thin and clear for perfect esthetics
- Liquid consistency for easy and economical application
- Effective double protection of 5% sodium fluoride and calcium deposits. The sodium fluoride works immediately while the calcium deposits store and release fluoride over time. The perfect formula for immediate and long-term results.
- Free of glutaraldehyde, gluten or methacrylates
- CDT Insurance Code 9910 can be used as an application for desensitizing medicament¹

### Presentation

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 1590</td>
<td>Pack 50 x .04 ml SingleDose, accessories</td>
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<tr>
<td>REF 1591</td>
<td>Pack 200 x .04 ml SingleDose, accessories</td>
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<tr>
<td>REF 1592</td>
<td>4 g bottle, easy brushes, accessories</td>
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<tr>
<td>REF 2245</td>
<td>Easy Brush – 50 pack</td>
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<tr>
<td>REF 2315</td>
<td>Mixing pallets – 20 pack</td>
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</tbody>
</table>

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¹ License to use the ADA CDT codes is granted to Kathy S. Forbes, RDH, BS. The ADA is the exclusive owner and copyright holder of the CDT (“Code”).
Bifluorid 10®
Double Fluoride liquid varnish for the treatment of dentinal hypersensitivity

Not available in the USA!

Indications
Treatment of hypersensitive teeth
Sealing of the dentinal tubules for cavity preparations or on sensitive root surfaces
Cavity liner under amalgam restorations
Desensitizer before and after bleaching

Advantages
- Bifluorid 10’s synthetic resin matrix ensures effective desensitizing during bleaching without interfering with the bleaching results.
- Thin and clear for perfect esthetics
- Liquid consistency for easy and economical application
- Effective double protection of 5% sodium fluoride and 5% calcium fluoride. The sodium fluoride works immediately while the calcium fluoride stores and releases fluoride over time.
- Superior immediate and long-term results.
- Free of glutaraldehyde, colophony, gluten or methacrylates

Fluoridation with Bifluorid 10 after a professional cleaning

Presentation
REF 1615 4 g bottle
REF 1616 10 g bottle
REF 1617 Pack 3 x 10 g bottle
REF 1618 Pack 50 x 0.4 ml SingleDose, accessories
REF 1619 Pack 200 x 0.4 ml SingleDose, accessories
REF 1032 10 ml Solvent bottle

Mode of action of the sodium and calcium fluoride contained in Bifluorid 10

Tubule A:
Formation of calcium fluoride by the reaction of the sodium fluoride contained in Bifluorid 10 with calcium ions contained in the saliva and dentinal tubuli liquid

Tubule B:
Storage of the calcium fluoride contained in Bifluorid 10 in the tooth substance and tubuli

For use with Bifluorid 10
**Admira Protect**

**Light-cured, Nano-filled desensitizer**

**Indications**
- Treatment of hypersensitive dentin
- Treatment of cervical areas (including crown margins, after tooth cleaning or tartar removal, exposed cervical areas etc.)

**Advantages**
- No hypersensitivity for up to two years
- Biocompatible ORMOCER® matrix – no glutaraldehyde
- Significant reduction of stimulus transfer through intensive deep sealing of exposed root dentin
- High wear resistance through special Nano-filler technology
- High bond strength
- CDT Insurance Code 9911 can be used as an application of desensitizing resin for cervical/root surface, per tooth¹

**Presentation**
- REF 1650 4.5 ml bottle
- REF 2247 Single Tim – 100 pack
- REF 2315 mixing pallets – 20 pack

---

**Grandio Seal**

**Highly filled Nano-hybrid pit and fissure sealant**

**Indications**
- Seals/fills pits and fissures
- Seals damaged enamel surfaces
- Covers caries-prone areas during orthodontic treatments
- Seals deciduous teeth

**Advantages**
- 70% filled by weight for excellent wear resistance
- Low shrinkage
- Superb flow and wetting properties
- Patented NDT®¹ (Non-Dripping Technology) Syringes and ultra-fine intraoral tips
- Drip-free, bubble-free placement
- Excellent penetration of the deepest pits and fissures
- One radiopaque shade for optimum visibility
- CDT Insurance Code 1351 can be used as a per tooth sealant to prevent decay²

**Technical Data**
- Filler content: 70.2% by weight
- Adhesion to enamel (after 24 hours of storage in water): 16.9 MPa
- Transverse strength: 130 MPa
- Transverse strength after thermocycling: 107 MPa
- Wear (ACTA): 41.7 μm

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¹ US Patent No: 8,641,416 B2 ² License to use the ADA CDT codes is granted to Kathy S. Forbes, RDH, BS.

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# DIRECT RESTORATION

<table>
<thead>
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<th>Type</th>
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<tr>
<td></td>
<td>Easy Glaze</td>
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</tr>
</tbody>
</table>
Calcicur®

Ready-to-use calcium hydroxide paste

Indications
Indirect capping for the treatment of caries profunda
Direct capping when the pulp is opened or a pulpotomy is performed
Lining of cavities to prevent exposure to acid media when using cements
For temporary filling of root canals

Advantages
- Suitable for use under any lining or restorative material
- Immediately ready for use
- With high pH (12.5) known for antimicrobial effect
- Calcium hydroxide content of 45%
- Radiopaque
- Promotes the formation of tertiary dentin
- Effective pulp protection

Presentation
| REF 1093  | 2.5 g syringe, intraoral tips type 47 |
| REF 2131  | intraoral tips type 47 - 30 pack |

Calcicur®
Ready-to-use calcium hydroxide paste

Calcicur®
Ready-to-use calcium hydroxide paste
Calcimol
Self-cured paste-to-paste calcium hydroxide

Indications
Indirect pulp capping
Lining under all filling materials

Advantages
• Effective protection of the pulp
• Easy application
• Suitable working time
• Short setting time
• Contains 26% calcium hydroxide
• Radiopaque
• Supports the formation of tertiary dentin

Calcimol LC
Light-cured, resin modified calcium ion releasing base liner

Indications
Indirect pulp capping
Lining under all filling materials

Advantages
• Calcium ion release promotes hydroxyapatite and tertiary dentin growth
• Has a high pH level (9.5–11) which is considered to have an antimicrobial effect
• Flow on demand – stays where you apply it
• Non-Dripping Technology (NDT®¹) syringe for easy placement without waste
• Virtually eliminates sensitivities by creating a sealed barrier to the pulp
• Suited for pulp capping* and as a base liner under all restorative materials and cements
• High compressive strength for a solid foundation
• Radiopaque for easy X-ray identification
• Acid resistant

Calcimol LC in the NDT®¹ syringe
• NDT®¹ means Non-Dripping Technology
• Especially for fine-flowing materials
• Can be dosed and applied precisely
• No loss or waste of material

Presentation
REF 1097 Set 1 x 13 g base, 1 x 11 g catalyst

Presentation
REF 1307 Pack 2 x 2.5 g syringes, intraoral tips type 41
REF 2146 intraoral tips type 41 – 100 pack

Not available in Canada!
**Ionoseal**

One component light-cured resin modified glass ionomer liner

### Indications
- Lining under all types of filling material
- Extended fissure sealing
- Restoration of small lesions

### Advantages
- Saves time: Ready-to-use one component material
- Fast 20 sec. light-cure (2 mm)
- High compressive strength (226 MPa)
- Acid resistant allows for total-etch bonding technique
- Patented NDT\(^{\text{\textregistered}}\) Syringe saves material
- High fluoride release protects against secondary caries
- High biocompatibility
- Radiopaque

### Presentation
- REF 1326 Pack 3 x 2.5 g syringes, intraoral tips type 41
- REF 2146 intraoral tips type 41 - 100 pack

---

**Vococid**

Phosphoric etchant gel

### Indications
- Etching of enamel and dentin in the etch-bond technique

### Advantages
- Non-dripping gel consistency
- 35% orthophosphoric acid
- Blue color for visual control

### Presentation
- REF 1063 Pack 1 x 5 ml syringe, accessories
- REF 1224 Pack 5 x 2 ml syringes, accessories
- REF 2310 intraoral tips type 42 - 30 pack
- REF 2132 intraoral tips type 48 - 50 pack
Admira Bond
Light-cured total-etch, one coat, one bottle adhesive

Not available in Canada!

Indications
Direct restoration with all types of light-cured restoratives (ORMOCER®s, composites, compomers)

Advantages
- Acetone-based for better water displacement; deeper tubule infiltration and reduced sensitivity
- Unique combination of micro mechanical and chemical bonding for superior high bond strength to dentin and enamel
- Elasticity during peak stress ensures long-lasting marginal seal
- Low uniform film thickness
- More than 15-year proven record of success
- Easy dispensing one-drop bottles

Presentation
| REF 2479 4 ml bottle |
| REF 2432 Pack 2 x 4 ml bottles |
| REF 2315 mixing pallets – 20 pack |

CTR adhesion describes the adhesion mechanisms of VOCO dentin and enamel bonding agents

CTR stands for:
- C = chemical bond through complex formation to dentinal calcium
- C = a second chemical adhesion mechanism through a special monomer to chemically bound phosphate
- T = development of tags in the tubuli
- R = retentive adhesion to free collagen fibers
**Futurabond DC**

**Self-etch, dual-cured adhesive for all light-, dual- and self-cured resin materials**

**Indications**
- Dual-cured, self-etch adhesive for direct and indirect restorations with self-, light- and dual-cured resin materials

**Advantages**
- Over 30 MPa adhesion to dentin and enamel with LC composites and strong bond strength with DC and SC composites
- Virtually no post-operative sensitivities
- Can be used without light – great for endo
- Reinforced with nano particles: increased bonding values, increased marginal integrity
- Fast and easy one-coat application (apply, dry, cure in 35 sec.)
- Moisture tolerant
- No refrigeration or shaking necessary
- Contains fluoride

**Presentation**
- REF 1164 Pack 50 × 0.1 ml SingleDose, accessories
- REF 1165 Pack 200 × 0.1 ml SingleDose, accessories
- REF 1163 Pack 4 ml liquid 1, 4 ml liquid 2, accessories
- REF 2246 Endo Tim (for use in root canal) – 50 pack
- REF 2247 Single Tim – 100 pack
- REF 2315 mixing pallets – 20 pack

**Technical Data**
- Micro-tensile bond strength to dentin: 39.3 MPa (University of Tanta)
- Shear bond strength to dentin: 30.2 MPa (analogous Reinhardt*)
- Shear bond strength to enamel: 36.1 MPa (analogous Reinhardt*)


**In combination with Futurabond M+ DCA (Dual Cure Activator):**
- Direct and indirect restorations using any self-cured or dual-cured methacrylate-based restorative, core build-up or luting composite
- Cementation of root posts with dual-curing or self-curing composites

---

**Futurabond M+**

**Universal adhesive in a bottle delivery system**

**Indications**
- Direct and indirect restorations using any light-cured methacrylate-based restorative, core build-up or composite
- Intraoral repair of fillings, ceramic veneers and all-ceramic restorations without an additional primer
- Treatment of hypersensitive tooth necks
- Protective varnish for glass ionomer cement restorations
- Sealing of cavities prior to amalgam restorations or prior to temporary cementation

**Advantages**
- A flexible and reliable solution for every bonding situation
- Can be applied with or without phosphoric acid etchant
- Suitable for direct and indirect restorations
- Secure adhesion to various materials such as metals, zirconium or aluminum oxide, as well as silicate ceramics, without additional primer
- Applied in one layer – only 35 seconds total working time

**Presentation**
- REF 1515 5 ml bottle, accessories
- REF 1516 Pack 3 × 5 ml bottles
- REF 1518 Dual Cure Activator (DCA) bottle 2 ml
- REF 2247 Single Tim – 100 pack
- REF 2315 mixing pallets – 20 pack
**Futurabond U**

**Dual-cured Universal adhesive**

**Indications**
- Direct and indirect restorations using any light-cured, self-cured or dual-cured methacrylate-based restorative, core build-up or composite
- Intraoral repair of fillings, ceramic veneers and all-ceramic restorations without additional primer
- Treatment of hypersensitive tooth necks
- Protective varnish for glass ionomer cement restorations
- Sealing of cavities prior to amalgam restorations or prior to temporary cementation
- Cementation of root posts with dual-curing or self-curing composites

**Advantages**
- One adhesive for all your adhesive dentistry
  - self-etch, selective-etch or total-etch
  - for all direct or indirect materials without any extra activator
  - bonds to all light-, dual- and self-cured resin materials
  - bonds to metal, zirconia, aluminum oxide, silicate ceramic without any extra primer
- VOÇO’s patented SingleDose System eliminates the solvent evaporation problem that exists with bottle systems, ensuring reliable and consistent bond strengths with each use
- Fast and easy one-coat application (apply, dry and cure in 35 sec.)
- Virtually no post-operative sensitivity
- Over 30 MPa adhesion to dentin and enamel with LC composites and strong bond strength with DC and SC composites
- Reinforced with nano particles for permanent bond strength

**Presentation**
- REF 1571 Pack 50 × 0.1 ml SingleDose, accessories
- REF 1572 Pack 200 × 0.1 ml SingleDose, accessories
- REF 2246 Endo Tim (for use in root canal) – 50 pack
- REF 2247 Single Tim – 100 pack

---

**Endo Tim**

**Indications**
- Brushes for applying bonding agents and varnishes into the root canal
MORE THAN 10 YEARS OF PROVEN PERFORMANCE, ESTHETICS AND LONGEVITY BUILT ON TOOTHLIKE PHYSICAL PROPERTIES

GrandioSO

Universal light-cured 89% filled Nano-hybrid composite for anterior and posterior fillings of all classes

Indications
Class I – V restorations
Reconstruction of traumatically damaged anteriors
Facetting of discolored anteriors
Correction of shape and shade for improved esthetic appearance
Locking, splinting of loosened teeth
Repairing veneers
Restoration of deciduous teeth
Core build-up under crowns
Composite inlays

Advantages
• 89% fillers by weight
  • outstanding wear resistance
  • enhanced color stability
• 30–50% less resin compared to classic hybrid and pseudo-nano composites
  • low shrinkage of only 1.6% (by volume)
  • non-sticky
  • prolonged working time under ambient light
• Designer Nano particles
  • excellent polishability and polish retention
  • tooth-like modulus of elasticity
  • tooth-like thermal expansion and flexural strength
  • VOCO’s individual cross-contamination prevention packaging for capsules
• SingleDose blister pack for consistent quality and prevention of cross-contamination

Presentation
REF 2640 Caps Kit, 80 × 0.25 g caps (A1, A2, A3, GA3.25, B1) shade guide
REF 2600 Syringe Kit, 5 × 4 g syringes (A1, A2, A3, GA3.25, B1) shade guide
REF 9301 Caps Dispenser
Refills (1 × 4 g syringe/16 × 0.25 g caps), each:

<table>
<thead>
<tr>
<th>Shade</th>
<th>1 x 4 g syringe</th>
<th>16 x 0.25 g caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 2610</td>
<td>REF 2650</td>
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<td>A2</td>
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<td>REF 2651</td>
</tr>
<tr>
<td>A3</td>
<td>REF 2612</td>
<td>REF 2652</td>
</tr>
<tr>
<td>A3.5</td>
<td>REF 2614</td>
<td>REF 2654</td>
</tr>
<tr>
<td>A4</td>
<td>REF 2615</td>
<td>REF 2655</td>
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<td>B1</td>
<td>REF 2619</td>
<td>REF 2659</td>
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<td>B2</td>
<td>REF 2620</td>
<td>REF 2660</td>
</tr>
<tr>
<td>B3</td>
<td>REF 2621</td>
<td>REF 2661</td>
</tr>
<tr>
<td>C2</td>
<td>REF 2624</td>
<td>REF 2664</td>
</tr>
<tr>
<td>D3</td>
<td>REF 2627</td>
<td>REF 2667</td>
</tr>
<tr>
<td>I (Incisal)</td>
<td>REF 2629</td>
<td>REF 2669</td>
</tr>
<tr>
<td>Opaque OA1</td>
<td>REF 2630</td>
<td>REF 2670</td>
</tr>
<tr>
<td>Opaque OA2</td>
<td>REF 2631</td>
<td>REF 2671</td>
</tr>
<tr>
<td>Opaque OA3.5</td>
<td>REF 2633</td>
<td>REF 2673</td>
</tr>
<tr>
<td>BL (Bleach)</td>
<td>REF 2635</td>
<td>REF 2675</td>
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<tr>
<td>GA3.25</td>
<td>REF 2636</td>
<td>REF 2653</td>
</tr>
<tr>
<td>GA5</td>
<td>REF 2616</td>
<td>REF 2656</td>
</tr>
</tbody>
</table>

Technical Data
Filler Content: 89% by weight 73% by volume DIN 51081
Shrinkage: 1.61% (by volume) analogous Watts et al.
Modulus of Elasticity 16,650 MPa ISO 4049
Depth of Cure >2.8 mm/20 s ISO 4049
Radiopacity 320 %AI ISO 4049
Surface Hardness (Micro-Vickers hardness) 211 MHV University of Rostock, Germany
Resistance to Ambient Light 4 minutes and 30 seconds ISO 4049
Gloss 84 GU DIN 67530
Wear Rate 18 μm 3 body wear ACTA 200,000

GrandioSO shade guide REF 2607
GrandioSO x-tra
Esthetic Nano-hybrid bulk-fill composite

Indications
Class I and II posterior restorations
Base in Class I and II cavities
Class V restorations
Locking, splinting of loose teeth
Repairing veneers, enamel defects and temporary C&B materials
Extended fissure sealing
Restoration of deciduous teeth
Core build-up

Advantages
- Quick and esthetic posterior restorations
- Higher level of hardness than other bulk-fill composites – on the surface, as well as at 4 mm depth of cure
- High filler content (86% by weight) and extremely low polymerization shrinkage (1.4% by volume)
- High shade stability
- Excellent handling and simple high-luster polishing procedure
- In shades A1, A2, A3 and Universal

Presentation
<table>
<thead>
<tr>
<th>Shade</th>
<th>16 x 0.25 g caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal</td>
<td>REF 2714</td>
</tr>
<tr>
<td>A1</td>
<td>REF 2715</td>
</tr>
<tr>
<td>A2</td>
<td>REF 2716</td>
</tr>
<tr>
<td>A3</td>
<td>REF 2717</td>
</tr>
</tbody>
</table>

Technical Data

Filler Content: 89% by weight, 73% by volume

Shrinkage: 1.4 Vol. % analogous Watts

Shrinkage stress: 5.16 MPa analogous Watts

Flexural strength: 186 MPa ISO 4049

Flexural strength after thermo-cycling: 180 MPa ISO 4049

Modulus of elasticity: 14.034 MPa ISO 4049

Compressive strength: 334 MPa analogous ISO 9917

Radiopacity: 423 %Al ISO 4049

Water uptake: ≤ 0.1 μg/mm³ ISO 4049

Solubility in water: ≤ 0.1 μg/mm³ ISO 4049

Surface hardness (Micro-Vickers): 222.67 MHV

ACTO-wear rate: 44 μm analogous ISO 9917

Curing depth (10 s): 4.67 mm ISO 4049
GrandioSO Light Flow
Extremely flowable, yet highly stable Nano-hybrid composite with an ultra-fine intraoral tip for precise applications

Indications
Filling/characterization of small cavities
Filling/characterization of Class III, IV and V cavities
Extended fissure sealing
Blocking out undercuts
Lining or coating cavities
Repairing fillings, veneers and temporary restorations
Cementing translucent prosthetic pieces

Advantages
• Low viscosity – allows for outstanding flow properties for maximum accessibility of hard-to-reach areas and small cavities
• Ultra-fine intraoral tip – for precise and pinpoint application and dosage without excess residues for material savings
• High performance – superior physical properties due to 76% (by weight) nano-hybrid fill rate.
• High esthetics – 8 shades that blend well due to designer nano-particulate
• Excellent handling – NDT®1-syringe (non-drip technology), compatible with all light-curing adhesives

Treatment of an anterior tooth defect with GrandioSO Light Flow
Initial situation: Enamel fracture on tooth 8
Pre-treatment of enamel fracture
Filling of defect with ultra-fine intraoral tip and GrandioSO Light Flow without excess residues
Final result after finishing

Source: Dr. Walter Denner, Fulda / Germany
**GrandioSO Flow**

**Medium-viscous, light-cured, universal flowable 81% filled Nano-hybrid composite**

---

### Indications

- Restoration of minimally invasive cavities of all classes
- Restorations of small Class I cavities and extended fissure sealing
- Restoration of Class II – V cavities including V-shaped defects and cervical caries
- Blocking out of undercuts
- Lining or coating of cavities
- Repair of fillings, veneers and temporary crowns & bridges
- Cementation of attachment of translucent prostheses (e.g. all-ceramic crowns etc.)

### Advantages

- Outstanding physical properties through 81% filler content
  - strong enough for occlusal surfaces of Class I + II restorations
  - wear resistance of a hybrid
  - excellent color retention
- Excellent wettability
- Thixotropic material that will "flow on demand" without slumping
- Precise application with long bendable tip
- Natural esthetics and exact shade matching with GrandioSO Radiopaque
- Patented NDT®¹ (Non-Dripping Technology) syringes

---

**Technical Data**

<table>
<thead>
<tr>
<th>Filler content</th>
<th>81% (by weight)</th>
<th>65% (by volume)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shrinkage</td>
<td>3.19% (by volume)</td>
<td>analogous Watts et al.</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>10,580 MPa</td>
<td>ISO 4049</td>
</tr>
<tr>
<td>Depth of cure</td>
<td>&gt;2.51 mm/20 sec.</td>
<td>ISO 4049</td>
</tr>
<tr>
<td>Radiopacity WO</td>
<td>500 %Al</td>
<td>ISO 4049</td>
</tr>
<tr>
<td>Radiopacity WO</td>
<td>500 %Al</td>
<td>ISO 4049</td>
</tr>
<tr>
<td>Wear rate:</td>
<td>48 μm (ACTA method: 200,000 cycles)</td>
<td></td>
</tr>
<tr>
<td>Flexural strength</td>
<td>159 MPa</td>
<td>ISO 4049</td>
</tr>
</tbody>
</table>

---

*Only Above Shades are Available*
**Indications**

Restoration of minimally invasive cavities of all classes

Restoration of small Class I cavities and for extended fissure sealing

Restoration of Class II – V cavities including wedge-shaped defects and cervical caries

Blocking out of undercuts

Lining or coating of cavities

Repair of restorations and veneers

Cementing of attachment of translucent prostheses (e.g. all-ceramic crowns etc.)

**Advantages**

- Outstanding physical properties through 83% filler content
  - Strong enough for occlusal surfaces of Class I + II restorations
  - Wear resistance of a hybrid
  - Excellent color retention

- No undesirable runoff; increased stability in comparison to conventional flowables

- Simplified filling of undercuts, approximal boxes and paragingival areas

- Ideal for proximal and cervical areas

- Ideal for use with the GrandTEC glass fiber system

- Patented NDT®¹ (Non-Dripping Technology) syringes

---

**Presentation**

<table>
<thead>
<tr>
<th>Shade</th>
<th>2 x 2 g syringes</th>
<th>16 x 0.25 g caps</th>
</tr>
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<tbody>
<tr>
<td>A1</td>
<td>REF 2684</td>
<td>REF 2704</td>
</tr>
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<td>REF 2686</td>
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<td>A3.5</td>
<td>REF 2687</td>
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<td>A4</td>
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</tr>
<tr>
<td>C2</td>
<td>REF 2692</td>
<td></td>
</tr>
<tr>
<td>OpA2</td>
<td>REF 2693</td>
<td></td>
</tr>
<tr>
<td>I (Incisal)</td>
<td>REF 2694</td>
<td></td>
</tr>
<tr>
<td>BL (Bleach)</td>
<td>REF 2695</td>
<td></td>
</tr>
<tr>
<td>WO (White Opaque)</td>
<td>REF 2696</td>
<td></td>
</tr>
<tr>
<td>G45</td>
<td>REF 2689</td>
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</table>

*Only Above Shades are Available

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Filler Content</td>
<td>83% (by weight)</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>2.96% (by volume)</td>
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<tr>
<td>Flexural Modulus</td>
<td>11,850 MPa ISO 4049</td>
</tr>
<tr>
<td>Depth of Cure</td>
<td>&gt;2.5 mm/20 sec. ISO 4049</td>
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<tr>
<td>Radiopacity</td>
<td>260 %AI ISO 4049</td>
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<tr>
<td>Compressive Strength:</td>
<td>417 MPa ISO 9917</td>
</tr>
<tr>
<td>Wear Rate</td>
<td>40 μm 3 body wear (ACTA 200,000)</td>
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<tr>
<td>Flexural Strength</td>
<td>159 MPa ISO 4049</td>
</tr>
</tbody>
</table>
Grandio
Universal light-cured 87% filled Nano-hybrid composite for anterior and posterior fillings of all classes

Indications
Class I to V fillings
Reconstruction of traumatically affected anteriors
Facetting of discolored anteriors
Correction of shape and shade to improve esthetic appearance
Locking, splinting of loose anteriors
Repair of veneers
Core build-up under crowns
Especially suitable for composite inlays

Advantages
• 87% fillers by weight
  • outstanding wear resistance
  • enhanced color stability
  • terrific handling characteristics (great sculptability, non-sticky consistency, no slumping)
• 30-50% less resin compared to standard micro hybrids
  • low shrinkage of only 1.57% (by volume)*
  • excellent polishability
  • improved translucency
  • very high biocompatibility
  • VOCO’s individual cross-contamination prevention packaging for capsules
• SingleDose blister pack for consistent quality and prevention of cross-contamination

Presentation
REF 1800 Syringe Kit, 5 × 4 g syringes
(A1, A2, A3, A3.5, B2), shade guide
REF 1830 Caps Kit, 50 × 0.25 g Caps
(A1, A2, A3, A3.5, B2), shade guide
REF 9301 Caps Dispenser
Refills (1 × 4 g syringe/20 × 0.25 g caps), each:

<table>
<thead>
<tr>
<th>Shade</th>
<th>1 × 4 g syringe</th>
<th>20 × 0.25 g caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 1810</td>
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<tr>
<td>A2</td>
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<td>REF 1841</td>
</tr>
<tr>
<td>A3</td>
<td>REF 1812</td>
<td>REF 1842</td>
</tr>
<tr>
<td>A3.5</td>
<td>REF 1813</td>
<td>REF 1843</td>
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<tr>
<td>A4</td>
<td>REF 1814</td>
<td>REF 1844</td>
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<td>B1</td>
<td>REF 1824</td>
<td>REF 1854</td>
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<tr>
<td>B2</td>
<td>REF 1815</td>
<td>REF 1845</td>
</tr>
<tr>
<td>B3</td>
<td>REF 1816</td>
<td>REF 1846</td>
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<tr>
<td>C2</td>
<td>REF 1817</td>
<td>REF 1847</td>
</tr>
<tr>
<td>C3</td>
<td>REF 1818</td>
<td>REF 1848</td>
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<td>D2</td>
<td>REF 1825</td>
<td>REF 1855</td>
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<td>D3</td>
<td>REF 1819</td>
<td>REF 1849</td>
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<tr>
<td>I (Incisal)</td>
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<tr>
<td>Opaque OA2</td>
<td>REF 1821</td>
<td>REF 1851</td>
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<tr>
<td>Opaque OA3.5</td>
<td>REF 1822</td>
<td>REF 1852</td>
</tr>
<tr>
<td>BL (Bleach)</td>
<td>REF 1823</td>
<td>REF 1853</td>
</tr>
<tr>
<td>Grandio shade guide</td>
<td>REF 1899</td>
<td></td>
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Technical Data
| Filler content | 87% by weight 71.4% by vol. | DIN 13922 |
| Shrinkage     | 1.57% by vol. | University of Manchester, GB |
| Surface hardness (Micro Vickers-hardness) | 285 MHV | University of Rostock, Germany |
| Wear rate     | 18 μm | 3 body wear (ACTA 200,000) |
| Depth of cure | 3 mm/20 sec. | ISO 4049 |
| Radiopacity   | 250 %Al | ISO 4049 |
Amaris
Nano-reinforced simplified shade composite

Indications
Esthetic restoration of Class III, IV and V cavities in anteriors
Esthetic restoration of Class I, III and V cavities in posteriors
Reconstruction of traumatically damaged anteriors
Direct and indirect composite veneers, facing of discolored anteriors
Correction of shade and shape for improved esthetics
Repair of highly esthetic ceramic restorations
Splinting, interlocking of teeth

Advantages
• Restore teeth across entire VITA shade range with 5 basic opaque shades and 3 translucent modifier shades
• Reduce inventory
• Easy to polish for high luster gloss anterior
• Nano-reinforced pre-polymerized ISO fillers for low shrinkage and excellent wear for posterior
• Non-sticky consistency makes shaping easy
• Non-sensitive to ambient light guarantees at least 8 minutes working time
• Natural fluorescence and high color stability

Presentation
REF 1930 Syringe Kit, 8 × 4 g syringes (O1, O2, O3, O4, O5, TL, TN, TD), 2 × 1.8 g syringes Amaris Flow (HT, HO), accessories
REF 1949 Caps Starter Kit, 4 × 0.25 g caps (each O1, O2, O3, O4, O5), 2 × 1.8 g syringes Amaris Flow (HT, HO) accessories
REF 2144 intraoral tips type 44 – 100 pack
REF 9301 Caps Dispenser
Refills (1 × 4 g syringe / 16 × 0.25 g caps), each:

<table>
<thead>
<tr>
<th>Shade</th>
<th>1 × 4 g syringe</th>
<th>16 × 0.25 g caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>O1</td>
<td>REF 1933</td>
<td>REF 1953</td>
</tr>
<tr>
<td>O2</td>
<td>REF 1934</td>
<td>REF 1954</td>
</tr>
<tr>
<td>O3</td>
<td>REF 1935</td>
<td>REF 1955</td>
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<td>O4</td>
<td>REF 1936</td>
<td>REF 1956</td>
</tr>
<tr>
<td>O5</td>
<td>REF 1937</td>
<td>REF 1957</td>
</tr>
<tr>
<td>O Bleach</td>
<td>REF 1938</td>
<td>REF 1958</td>
</tr>
<tr>
<td>TL (Translucent Light)</td>
<td>REF 1940</td>
<td>REF 1960</td>
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<tr>
<td>TN (Translucent Neutral)</td>
<td>REF 1941</td>
<td>REF 1961</td>
</tr>
<tr>
<td>TD (Translucent Dark)</td>
<td>REF 1942</td>
<td>REF 1962</td>
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Refills (2 × 1.8 g syringe):

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<th>Shade</th>
<th>Syringe</th>
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<tr>
<td>HT (High Translucent)</td>
<td>REF 1945</td>
</tr>
<tr>
<td>HO (High Opaque)</td>
<td>REF 1946</td>
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</tbody>
</table>

Shade guide
REF 1669

Technical Data
Filler content 80% (by weight)
Shrinkage 2.0% (by volume)
ACTA Wear Rate (200,000 cycles) 45 μm
Flexural Strength (ISO 4049) 120 MPa
Compressive Strength 375 MPa
Diametral Tensile Strength (DTS) 51 MPa
Radiopacity (ISO 4049) 210 %Al
Translucent shades (10 sec.) > 2.5 mm
Opaque shades (40 sec.) > 2.0 mm

80% w/w I-V class restorations
10–40 sec light-curing
Volumetric shrinkage 2%

Pictures are a courtesy of Joyce L. Bassett, DDS, Scottsdale, AZ

¹US Patent No: 8,641,416 B2
**Amaris Gingiva**

Light-cured, gingiva colored restorative system

**Indications**

Class V restorations (cervical caries, root erosion, V-shaped defects) especially in cases of retreating gingiva, e.g. as a result of periodontal disease

Covering of exposed discolored hypersensitive tooth necks, especially in the visible anterior area

Highly esthetic correction of malpositions of teeth, for direct veneers, facings and corrections of the red-white esthetics

**Advantages**

- One base shade, combined with three mixable opaquers, can reproduce virtually all gingival shades
- Esthetic and functional solution for cavities and V-shaped defects in cervical areas exposed by gingival recession
- Latest composite technology – Amaris® know-how in gingival shades with high flexural strength and high wear resistance

**Presentation**

REF 1970 Kit, 3 × 1.2 g opaque in the colors white, light and dark, 1 × 4 g basic color “nature”, accessories

REF 1971 Refill, 1 × 4 g color “nature”

REF 2147 intraoral tips type 45 – 100 pack

**Technical Data**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>Filler content</td>
<td>80% (by weight)</td>
<td>DIN 51081</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>2% (by volume)</td>
<td>University of Manchester</td>
</tr>
<tr>
<td>3-Point flexural strength</td>
<td>120 MPa</td>
<td>ISO 4049</td>
</tr>
<tr>
<td>Surface hardness (Micro-Vickers Hardness)</td>
<td>99 MHV</td>
<td>University of Rostock</td>
</tr>
<tr>
<td>Depth of cure (500 mW/cm²)</td>
<td>&gt; 2 mm / 40 s</td>
<td>ISO 4049</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>210 %Al</td>
<td>ISO 4049</td>
</tr>
<tr>
<td>Water solubility</td>
<td>&lt;1 μg/mm³</td>
<td>ISO 4049</td>
</tr>
<tr>
<td>Water absorption</td>
<td>18.4 μg/mm³</td>
<td>ISO 4049</td>
</tr>
</tbody>
</table>

**Clinical application**

Initial situation on teeth 6 and 7

Cervical restorations with Amaris Gingiva

Dr. Jan-Erik Schulz-Walz, Hamburg, Germany
Admira Fusion®
Universal Nano-ORMOCER® restorative material

Indications
Class I to V restorations
Base in Class I and II cavities
Reconstruction of traumatically damaged anteriors
Facetting of discolored anteriors
Correction of shape and shade for improved esthetic appearance
Locking, splinting of loose anteriors
Repairing veneers, small enamel defects and temporary C&B materials
Extended fissure sealing
Restoration of deciduous teeth
Core build-up
Composite inlays

Advantages
- The world’s first all ceramic-based direct universal restorative material
- Pure silicate technology: fillers and matrix are based purely on silicon oxide
- No traditional monomers (such as BisGMA [BPA], TEGDMA, UDMA, HEMA, etc.) for superior biocompatibility
- Nano-ORMOCER® technology reduces shrinkage and shrinkage stress by up to 50% compared to composites and leads to outstanding shade stability
- Non-sticky consistency for easy handling
- Perfect balance of translucency and opacity for natural looking restorations
- Easy to polish to a high shine luster
- High 84% fill rate for high wear resistance
- Compatible with all conventional bonding agents
- VOCO’s individual cross-contamination prevention packaging for capsules
- SingleDose blister pack for consistent quality and prevention of cross-contamination

Presentation

<table>
<thead>
<tr>
<th>Shade</th>
<th>1 × 3 g syringe</th>
<th>15 × 0.2 g caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 2754</td>
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</tr>
<tr>
<td>A2</td>
<td>REF 2755</td>
<td>REF 2783</td>
</tr>
<tr>
<td>A3</td>
<td>REF 2756</td>
<td>REF 2784</td>
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<td>REF 2758</td>
<td>REF 2786</td>
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<td>A4</td>
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<tr>
<td>B1</td>
<td>REF 2762</td>
<td>REF 2790</td>
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<td>B2</td>
<td>REF 2763</td>
<td>REF 2791</td>
</tr>
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<td>B3</td>
<td>REF 2764</td>
<td>REF 2792</td>
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<td>C2</td>
<td>REF 2766</td>
<td>REF 2794</td>
</tr>
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<td>D3</td>
<td>REF 2768</td>
<td>REF 2796</td>
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<td>Opaque D1</td>
<td>REF 2770</td>
<td>REF 2798</td>
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<tr>
<td>Opaque D2</td>
<td>REF 2771</td>
<td>REF 2799</td>
</tr>
<tr>
<td>Opaque D3</td>
<td>REF 2772</td>
<td>REF 2800</td>
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<td>REF 2773</td>
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<td>BL (Bleach)</td>
<td>REF 2775</td>
<td>REF 2803</td>
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<td>BXL (Bleach light)</td>
<td>REF 2777</td>
<td>REF 2805</td>
</tr>
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<td>1 (Incisal)</td>
<td>REF 2776</td>
<td>REF 2804</td>
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<tr>
<td>Mixed*</td>
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<td>GA3.25</td>
<td>REF 2757</td>
<td>REF 2785</td>
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<td>GA4.5</td>
<td>REF 2760</td>
<td>REF 2788</td>
</tr>
<tr>
<td>Admira Fusion Shade Guide</td>
<td>REF 2752</td>
<td></td>
</tr>
</tbody>
</table>

Technical Data

- Shrinkage: 1.25% (by volume)
- Shrinkage stress: 3.71 MPa analogous Watts et al.
- Filler content: 84% (by weight)
- Depth of Cure: 2.71 mm / 20 s
- Radiopacity: 305 %Al
- Modulus of elasticity: 9,800 MPa
- Thermal expansion coefficient α: 40.3 °10^-6 / K
- 3-Point-Resural strength: 132 MPa
- Edge stability: 171.9 N
- Compressive strength: 307 MPa analogous ISO 9917
- Water uptake: 13.4 μg / mm²
- Water solubility: ≤ 0.1 μg / mm²
- Resistance to ambient light: 198 s
- Tensile bond strength on enamel (with Futurabond M+: Self-Etch mode): 30.04 MPa
- Tensile bond strength on dentin (with Futurabond M+: Self-Etch mode): 23.82 MPa

*3 each of B1, C2, D3, BL, Incisal  ORMOCER® is a registered trademark of Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V., Munich, Germany.
Admira Fusion® Flow
Flowable light-cured Nano-ORMOCER® direct restorative material

Indications
- Filling of small cavities and extended fissure sealing
- Blocking out undercuts
- Lining or coating cavities
- Fillings of Class III-V cavities
- Repairing fillings, veneers and temporary restorations
- Luting translucent prosthetic pieces
- Locking/splinting of loose teeth

Advantages
- The world’s first all ceramic-based direct flowable restorative material
- Pure Silicate Technology: Fillers and matrix are based purely on silicon oxide
- No traditional monomers (such as BisGMA [BPA], TEGDMA, UDMA, HEMA, etc.) for superior biocompatibility
- Nano-ORMOCER® technology reduces shrinkage (2.75% by volume) and shrinkage stress to the level of universal composites
- Inert for outstanding shade stability
- High fill rate of 74% by weight for better wear
- Compatible with conventional adhesives
- Easy to polish to a high shine luster
- Excellent wettability
- Thixotropic material that will “flow on demand” without slumping
- Non-Dripping Technology syringe (NDT®)
- Radiopaque (240 %AI)
- 12 shades for esthetic restorations – perfectly matching the shade range of the packable version, Admira Fusion

Presentation

<table>
<thead>
<tr>
<th>Shade</th>
<th>2 x 2 g syringes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 2818</td>
</tr>
<tr>
<td>A2</td>
<td>REF 2819</td>
</tr>
<tr>
<td>A3</td>
<td>REF 2820</td>
</tr>
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<td>A3.5</td>
<td>REF 2821</td>
</tr>
<tr>
<td>A4</td>
<td>REF 2822</td>
</tr>
<tr>
<td>B1</td>
<td>REF 2824</td>
</tr>
<tr>
<td>B2</td>
<td>REF 2825</td>
</tr>
<tr>
<td>C2</td>
<td>REF 2826</td>
</tr>
<tr>
<td>I (Incisal)</td>
<td>REF 2828</td>
</tr>
<tr>
<td>Opaque OA2</td>
<td>REF 2829</td>
</tr>
<tr>
<td>BL (Bleach)</td>
<td>REF 2831</td>
</tr>
<tr>
<td>WO (White Opaque)</td>
<td>REF 2832</td>
</tr>
<tr>
<td>Admira Fusion Shade Guide</td>
<td>REF 2752*</td>
</tr>
</tbody>
</table>

*Only Above Shades are Available

Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Shrinkage</td>
<td>2.75% (by volume) analogous</td>
</tr>
<tr>
<td>Shrinkage stress</td>
<td>7.27 MPa analogous</td>
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<tr>
<td>Filler content</td>
<td>74% (by weight)</td>
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<tr>
<td>Depth of Cure</td>
<td>2.66 mm / 20 s</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>240 %AI</td>
</tr>
<tr>
<td>Modulus of elasticity</td>
<td>5,771 MPa</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>281 MPa analogous</td>
</tr>
<tr>
<td>Water uptake</td>
<td>12 μg / mm²</td>
</tr>
<tr>
<td>Water solubility</td>
<td>&lt; 0.1 μg / mm²</td>
</tr>
<tr>
<td>Resistance to ambient light</td>
<td>198 s</td>
</tr>
<tr>
<td>Water uptake</td>
<td>12 μg / mm²</td>
</tr>
<tr>
<td>Surface hardness</td>
<td>86 MHV</td>
</tr>
<tr>
<td>Diametrical tensile strength</td>
<td>66 MPa</td>
</tr>
</tbody>
</table>

ORMOCER® is a registered trademark of Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V., Munich, Germany.
Admira Fusion® x-tra
Single-shade Omni-chromatic Nano-ORMOCER® Restorative

Indications
Class I and II posterior restorations
Base in Class I and II cavities
Class V restorations
Locking, splinting of loose anteriors
Repairing veneers, small enamel defects and temporary
C&B materials
Extended fissure sealing
Restoration of deciduous teeth
Core build-up

Advantages
• Only one omni-chromatic shade restores entire classic shade range:
  no guess work and no more wasted shades
• 4 mm depth of cure – saves time
• Easy to polish, highly stain resistant with a high gloss
• Exceptional longevity with low initial shrinkage of only 1.25% by volume
• No traditional monomers (such as BisGMA [BPA], TEGDMA, UDMA, HEMA, etc.)
  for superior biocompatibility
• Based on innovative Nano-ORMOCER® Technology with enhanced physical properties
• Compatible with all conventional bonding agents
• VOCO’s individual cross-contamination prevention packaging for capsules
• SingleDose blister pack for consistent quality and prevention of cross-contamination

Presentation
REF 2810 Pack 3 g syringe – universal
REF 2811 Pack 15 × 0.2 g caps – universal
REF 9301 Caps Dispenser

Technical Data
Shrinkage 1.25% (by volume) analogous Watts et al.
Shrinkage stress 3.87 MPa analogous Watts et al.
Filler content 84% (by weight)
Depth of Cure 4.05 mm / 20 s
Radiopacity 296% Al
Modulus of elasticity 10,090 MPa
3-Point-flexural strength 136 MPa
Compressive strength 307 MPa analogous ISO 9917
Water uptake 13.4 μg / mm²
Water solubility ≤ 0.1 μg / mm²

Admira Fusion x-tra’s single universal shade matches:

Before
Light Cure

Final Result

Source: Internal VOCO data 2019

*ORMOCER® is a registered trademark of Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V., Munich, Germany.
Admira Fusion® x-base
Nano-ORMOCER® flowable base restorative material

**Indications**

- Base restorative in Class I and II fillings
- As a base/liner for Class I and II fillings
- Small, non occlusion-bearing Class I fillings
- Class III and V fillings
- Extended fissure sealing
- Blockout of undercuts
- Repair of small enamel defects
- Repair small defects in esthetic indirect restorations
- Repair of provisional C&B materials
- Core build-up

**Advantages**

- All ceramic-based nano-ORMOCER® Technology
- 4 mm depth of cure for ease and speed
- High fill rate of 72% by weight for better wear
- Extremely low polymerization shrinkage of 2.5% by volume
- Particularly low shrinkage stress with optimal marginal integrity
- Highly biocompatible and extremely color-stable
- Ideal flowability for excellent adaptation
- Outstanding handling, even in difficult-to-access areas
- Available in the patented Non-Dripping Technology (NDT®) syringe
- Compatible with all conventional adhesives
- Compatible with all conventional resin-based and ORMOCER®-based restorative materials

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shrinkage</td>
<td>2.5% (by vol.) analogous</td>
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<tr>
<td>Filler content</td>
<td>72.0% (by weight)</td>
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<tr>
<td>Depth of Cure</td>
<td>4.49 mm/20 s</td>
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<tr>
<td>Radiopacity</td>
<td>250 %Al</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>5,698 MPa</td>
</tr>
<tr>
<td>3-Point flexural strength</td>
<td>104 MPa</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>256 MPa analogous ISO 9917</td>
</tr>
<tr>
<td>Water absorption</td>
<td>16.36 μg/mm³</td>
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<tr>
<td>Water solubility</td>
<td>&lt;0.1 μg/mm³</td>
</tr>
<tr>
<td>Thermal expansion coefficient</td>
<td>54.7·10⁻⁶·K⁻¹</td>
</tr>
</tbody>
</table>

**Presentation**

REF 2812 Pack 2 x 2 g syringes, accessories
REF 2148 intraoral tips type 46 – 100 pack

¹US Patent No: 8,641,416 B2 ORMOCER® is a registered trademark of Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V., Munich, Germany.
**Indications**

Base for Class I and II cavities  
Cavity liner under direct restorative materials in Class I and II cavities  
Small, non-occlusal stress-bearing Class I restorations according to minimally invasive filling therapy  
Class III and V restorations  
Extended fissure sealing  
Undercut blockout  
Repair of small enamel defects  
Repair of small defects in esthetic indirect restorations  
Repair of temporary C&B materials  
Core build-up

**Advantages**

- 4 mm depth of cure in 10 sec saves time*  
- Low shrinkage stress allows bulk-fill speed  
- High strength makes it suitable for open and closed sandwich technique  
- Smart self-leveling properties for excellent wall adaptation without slumping out of maxillary restorations  
- High radiopacity (350 %Al) for easy X-ray identification  
- Available in patented NDT®¹ (Non-Dripping Technology) syringes or unit dose caps with extra long bendable needle tip  
- Available in shades A2 and Universal

---

**Presentation**

| REF 1790 Pack 2 x 2 g syringe, shade Universal |
| REF 1791 Pack 2 x 2 g syringe, shade A2 |
| REF 1794 Pack 16 x 0.25 g caps, shade Universal |
| REF 1795 Pack 16 x 0.25 g caps, shade A2 |
| REF 2148 intraoral tips type 46 – 100 pack |
| REF 9301 Caps Dispenser |

---

**Technical Data**

| Filler Content | 75% by weight |
| Shrinkage Stress | 5.93 MPa |
| Shrinkage | 2.54% (by volume) |
| Radiopacity | 350 %Al |
| Surface Hardness | 100 MHV |
| Wear (ACTA) | 46.1 μm |
| Flexural Strength after TC | 141 MPa |

---

¹US Patent No: 8,641,416 B2  *Universal shade
**x-tra fil®**

*Fast bulk-fill packable posterior composite*

**Indications**
- Class I and II restorations
- Core build-up

**Advantages**
- **x-tra fast**
  - 4 mm cure in 10 sec
  - Use with Futurabond NR/DC/U SingleDose to bond, fill and cure 4 mm in less than 60 sec.
- **x-tra durable**
  - low shrinkage of 1.7% by volume through multi-hybrid filler technology
  - 86% filled by weight for great wear resistance
- **x-tra easy**
  - one universal shade fits all. High translucency provides excellent chameleon effect for good esthetics
  - highly radiopaque (330 %AI)
  - perfect for fast core build-ups
- **x-tra safe**
  - VOCO’s individual cross-contamination prevention packaging for capsules
  - SingleDose blister pack for consistent quality and prevention of cross-contamination

**Presentation**
- REF 1740 Pack 1 x 5 g syringe, shade universal
- REF 1741 Pack 20 x 0.25 g caps, shade universal
- REF 9301 1 Caps Dispenser

**Technical Data**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Filler Content</td>
<td>86% w/w</td>
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<tr>
<td>Shrinkage</td>
<td>1.7% (by volume)</td>
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<tr>
<td>Radiopacity</td>
<td>330 %AI</td>
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<tr>
<td>Surface Hardness</td>
<td>142 MHV</td>
</tr>
<tr>
<td>Wear (ACTA)</td>
<td>43 μm</td>
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<tr>
<td>Flexural Strength</td>
<td>145 MPa</td>
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**Clinical Case**

Source: Dr. Ulrich Sachse, Kiel
**VisCalor® bulk**

**Thermo-viscous bulk-fill composite**

**Indications**
- Class I and II posterior restorations
- Base in Class I and II cavities
- Class V restorations
- Locking, splinting of loose teeth
- Repairing veneers, enamel defects and temporary C&B-materials
- Extended fissure sealing
- Restoration of deciduous teeth
- Core build-up

**Advantages**
- Thermo-viscous: Initially flowable for optimal adaptability, then immediately sculptable. This 2-in-1 material approach (flowable and packable) saves time
- Bulk-fill with 4mm depth of cure speeds up the procedure
- Easy-Access-Capsule with long and narrow tip for hard-to-reach areas and bubble-free application
- VOCO’s new TVT polymer technology for:
  - fast viscosity change
  - the ability to flow
  - low shrinkage and excellent wear
- Monoblock concept: one highly-filled material from bottom to top
- Safe to use. VisCalor bulk’s temperature increase during application and polymerization stays within the normal range of pulpal physiology*

**Technical Data**
- Shrinkage: 1.44% (by volume)
- Shrinkage stress: 4.6 MPa
- Filler content: 83% (by weight)
- Radiopacity: 310 %Al
- 3-point flexural strength: 164 MPa
- Compressive strength: 335 MPa
- Water absorption: 11 μg/mm²
- Water solubility: ≤ 0.1 μg/mm²
- Abrasion: 39 μm
- Diametral tensile strength: 64 MPa
- Thermal expansion coefficient: 33-10⁻⁶ / K⁻¹
- Surface hardness: 147 MHV

**Clinical Case**

**Initial situation**
Source: Dr. Walter Denner, Fulda / Germany

**Minimally invasive prepared cavity at tooth 5**

**Filling the cavity with VisCalor bulk**

**Restoration two months after filling**

**Caps Warmer**

**Preheating device for composite caps**

**Indications**
- Device for warming composite caps

**Advantages**
- Composite warming increases the viscosity of a composite, making the application easier
- Warms 2 finishing instruments, making it easier to sculpt the composite
- Holds 4 spare composite caps
- 3 heat levels for different viscosities
- No effect on physical properties of VOCO materials

**Presentation**
- REF 9001 Caps Warmer
- REF 9003 Caps Warmer Tray

---

*Caps Dispenser displayed with Caps Warmer is sold separately and does not come in kit. Instruments are for display only and do not come in kit.
**VisCalor® Dispenser**

Preheating dispenser for VOCO composite caps

**Indications**

Heating and application of highly filled composites in caps

**Advantages**

- Increased efficiency – rapid warming and immediate application in one device
- Homogeneous warming thanks to near-infrared technology
- Thoughtful design and proven shape for filling molar cavities
- Two customized programs (VisCalor bulk and additional VOCO composites)

**Presentation**

REF 9143 VisCalor Dispenser – Preheating device
REF 9144 Changeable tops – 2 pcs.
REF 9145 Protective sleeves – 100 pack

---

**Twinky Star**

Light-cured colored compomer filling material with glitter effect for deciduous teeth

**Indications**

Filling of deciduous teeth

**Advantages**

- 8 attractive colors
- Fast and easy direct application
- Excellent polishability
- Color guide with original material

**Presentation**

REF 1680 Kit 40 × 0.25 g caps in eight different colors, color guide
REF 9301 Caps Dispenser

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymerization Shrinkage</td>
<td>2% (by volume)</td>
</tr>
<tr>
<td>Filler Rate</td>
<td>77.8% (by weight)</td>
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<tr>
<td>Transverse strength</td>
<td>116 MPa (ISO 4049)</td>
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<tr>
<td>Compressive strength</td>
<td>316 MPa (ISO 9917)</td>
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<tr>
<td>Wear</td>
<td>14.6 μm (ACTA 250,000 cycles)</td>
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</tbody>
</table>
Celalux 3
High intensity, lightweight, cordless LED curing light

**Indications**
Curing of all light-cured dental materials whose polymerization is activated within a wavelength range of 450–480 nm

**Advantages**
- Only 2.5 oz weight – more user-friendly
- Vibration after 10 and 20 seconds – no more annoying beeps make it more patient-friendly
- High light intensity at 1,300 mW/cm² – ensures high depth of cure
- Wavelength of 450-480 nm – allows curing of virtually all modern materials
- Includes spare battery to eliminate unnecessary down time

**Presentation**
- REF 9090 Celalux 3 (handpiece, battery charger, power cord with interchangeable main adapters, 2 lithium polymer batteries, 8 mm light guide, rubber shield, operating instructions)
- REF 9091 Light guide 8 mm, autoclavable
- REF 9092 Device base (Battery)
- REF 9093 Rubber shield, 5 pcs.

**Technical Data**

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Light intensity</strong></td>
<td>1,300 mW/cm²</td>
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<tr>
<td><strong>Wavelength range</strong></td>
<td>450–480 nm</td>
</tr>
<tr>
<td><strong>Total Operation Time</strong></td>
<td>&gt; 45 cycles of 20 sec. cures w/ fully charged battery</td>
</tr>
<tr>
<td><strong>Operating voltage</strong></td>
<td>100-240 V AC 50/60 Hz</td>
</tr>
<tr>
<td><strong>Handpiece length</strong></td>
<td>Ø 12.6 mm x L 210 mm</td>
</tr>
<tr>
<td><strong>Handpiece weight</strong></td>
<td>70 g (incl. device base and light guide)</td>
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</tbody>
</table>

**IS GRAVITY WEIGHING DOWN YOUR CURING LIGHT?**

**Celalux**
HIGH-PERFORMANCE LED

65% LIGHTER*
23% SMALLER*

ENGINEERED FOR ELEGANCE AND POWER

*Compared to the average weight and size of the top 3 selling models
GrandTEC
Resin-impregnated, light-cured glass fiber-reinforced strands for use in the dental adhesive technique

Indications
For the reinforcement and stabilization of teeth in the dental adhesive technique

Advantages
• Three times the reinforcement strength compared to polyethene materials
• The ideal companion for the stabilization of teeth after orthodontic or periodontal therapy
• The perfect reinforcement in the fabrication of crowns and bridges
• For the temporary treatment of missing teeth; can also be used in the osseointegration process of an implant and in trauma therapy
• Compatible with all light-curing bonds and composites in direct and indirect restorations
• Does not rebound, unravel or fall apart when cut or adapted
• Safe and biocompatible
• No special gloves or tools needed

Presentation
REF 1168 5 x glass fiber strands 55 mm each

Technical Data
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>3-point Flexural Strength (2 x 2) (in combination with Grandio Flow)</td>
<td>655 MPa</td>
<td>analogous ISO 4049</td>
</tr>
<tr>
<td>Modulus of Elasticity (2 x 2) (in combination with Grandio Flow)</td>
<td>13,600 MPa</td>
<td>derived from flexural strength test</td>
</tr>
</tbody>
</table>

The adjacent photo shows a section from a GrandTEC glass fiber, bonded with Grandio Flow. The strong cohesion between the impregnated glass fiber and the flow composite are impressively documented here. The E-modulus of the test specimen achieved a value of more than 13 MPa; the transverse strength is 5x higher than with composites without the additional use of GrandTec glass fiber.

The adjacent enlargement shows the homogeneous progression of the densely packed glass fibers with GrandTEC.
**Ionolux®**

**Light-cured resin-modified glass ionomer restorative material**

### Indications
- Class III and V restorations, primarily cervical fillings and root caries
- Restoration of deciduous teeth
- Small Class I restorations
- Temporary restorations
- Core build-ups
- Linings

### Advantages
- Composite-like esthetics
- Light-curing for fast finish
- Immediately packable after application
- Does not stick to the instrument, easy to shape
- Excellent translucency for better esthetic results
- High fluoride release minimizes secondary caries
- Highly radiopaque
- No dentin conditioner or adhesive needed

### Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Standard</th>
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<tbody>
<tr>
<td>Shear bond strength to dentin</td>
<td>8.7 MPa</td>
<td>ISO/TS 11</td>
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<tr>
<td>Shear bond strength to enamel</td>
<td>8.7 MPa</td>
<td>ISO/TS 11</td>
</tr>
<tr>
<td>3-Point flexural strength</td>
<td>60.7 MPa</td>
<td>ISO 9917-2</td>
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<tr>
<td>Compressive strength</td>
<td>219.6 MPa</td>
<td>analogue, ISO 9917-1</td>
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<tr>
<td>Radiopacity</td>
<td>250 %Al</td>
<td>ISO 9917-2</td>
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<tr>
<td>Depth of cure (500 mW/cm²)</td>
<td>2 mm/20 s</td>
<td>ISO 4049</td>
</tr>
<tr>
<td>Working time</td>
<td>&gt; 3 min</td>
<td>ISO 9</td>
</tr>
</tbody>
</table>

### Clinical Case 1
- **Tooth 20 with cervical defect**
  
  Source: Dr. Isma Goltz, Bremen / Germany

- **Tooth 20 immediately after treatment**

### Clinical Case 2
- **Teeth 3, 4 after excavation**

  Source: Prof. Hervé Tassery, PU-PH, Faculty of Odontology, University of Marseille / France

- **Non-Stick Handling**

  Source: Prof. Hervé Tassery, PU-PH, Faculty of Odontology, University of Marseille / France
IonoStar® Plus
Fast-setting glass ionomer restorative material

Indications
Restorations of non-occlusal bearing Class I cavities
Semi-permanent restorations of Class I and II cavities
Restorations of cervical lesions, Class V cavities, root caries
Restorations of Class III cavities
Restoration of deciduous teeth
Base/Liner
Core build-up
Temporary restorations
Extended fissure sealing

Advantages
- Fast set time saves valuable chair time
- Does not stick to instrument for ease of application
- Two (2) stage consistency for easy adaptation, yet still packable
- Perfect wetting behavior for excellent marginal adaptation
- High translucency for better esthetic results
- Tooth-like fluorescence for better esthetic results
- Excellent physical properties support long-lasting restorations
- High fluoride release minimizes secondary caries

Presentation
| REF 2540 Kit 50 application capsules (10 × A1, 30 × A2, 10 × A3) |
| REF 2548 Pack 20 application capsules A1 |
| REF 2543 Pack 20 application capsules A2 |
| REF 2544 Pack 20 application capsules A3 |
| REF 2545 Pack 20 application capsules A3.5 |
| REF 2546 Bulk Pack 150 Application capsules A2 |
| REF 2547 Bulk Pack 150 Application capsules A3 |
| REF 2331 1 AC Applicator Type 1 |
| REF 2334 1 AC Applicator Type 2 |
| REF 9050 GIC Mixing Device |

Technical Data
| Compressive strength | 245 MPa | ISO 9917-1 |
| Radiopacity | 230 %Al | ISO 9917-1 |
| Mixing time | 10 s | ISO 9917-1 |
| Setting time | 60 s | ISO 9917-1 |
| Intraoral setting time | 120 s | ISO 991 |

Fluorescence
- Glass ionomer material without fluorescence
- IonoStar Plus

Non-Stick Handling
**IonoStar® Molar**

Glass ionomer restorative material

### Indications
- Restorations of non-occlusal bearing Class I cavities
- Semi-permanent restorations of Class I and II cavities
- Restorations of cervical lesions, Class V cavities, root caries
- Restorations of Class III cavities
- Restoration of deciduous teeth
- Base/Liner
- Core build-up
- Temporary restorations

### Advantages
- Does not stick to instrument for ease of application
- Adjustable consistency so you can pick your preference
- Perfect wetting behavior for excellent marginal adaptation
- Immediately packable; can be shaped immediately after application and remains stable
- High translucency enables better esthetic results
- Excellent physical properties support long-lasting restorations
- High fluoride release that minimizes secondary caries

### Presentation

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 2520</td>
<td>Kit 50 application capsules (10 × A1, 30 × A2, 10 × A3)</td>
</tr>
<tr>
<td>REF 2524</td>
<td>Pack 20 application capsules A1</td>
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<td>REF 2525</td>
<td>Pack 20 application capsules A2</td>
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<tr>
<td>REF 2526</td>
<td>Pack 20 application capsules A3</td>
</tr>
<tr>
<td>REF 2532</td>
<td>Bulk Pack 150 application capsules A2</td>
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<tr>
<td>REF 2533</td>
<td>Bulk Pack 150 application capsules A3</td>
</tr>
<tr>
<td>REF 2331</td>
<td>AC Applicator Type 1</td>
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<td>REF 2334</td>
<td>AC Applicator Type 2</td>
</tr>
<tr>
<td>REF 9050</td>
<td>GIC Mixing Device</td>
</tr>
</tbody>
</table>

*Includes AC Applicator Type 1*

### Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Compressive strength</td>
<td>275 MPa</td>
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<tr>
<td>Radiopacity</td>
<td>250% Al</td>
</tr>
<tr>
<td>Mixing time</td>
<td>10–15 s</td>
</tr>
<tr>
<td>Setting time</td>
<td>90 s</td>
</tr>
<tr>
<td>Intraoral setting time</td>
<td>180 s</td>
</tr>
</tbody>
</table>

### Non-Stick Handling

Device for mixing powder and liquid in application capsules

### VOCO GIC Mixer®

Capsule mixing device

### Indications

Device for mixing powder and liquid in application capsules

### Advantages
- High oscillating frequency of 4,600 rpm, creating a particularly homogeneous mixture of powder and liquid
- Modern design
- Capsule holder allows simple insertion and removal of capsules

### Presentation

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 9050</td>
<td>GIC Mixing Device</td>
</tr>
</tbody>
</table>
Final Varnish LC
Light-cured varnish for sealing of glass ionomer fillings

Indications
Sealing and surface covering of glass ionomer restorations
Protection against moisture and dehydration

Advantages
- Finish temporary and permanent restorations in seconds

Presentation
REF 1241 Pack 2 x 3 ml bottles
REF 2315 mixing pallets – 20 pack

Easy Glaze®
Nano-filled, light-cured liquid polish and surface sealant

Not available in Canada!

Indications
Surface sealing of glass ionomer cements, provisional crowns and bridges and definitive composite restorations
Protecting glass ionomer cement surfaces against the effects of moisture and dehydration immediately after placement
Sealing glass ionomer cement liners/build-up restorations before taking impressions
Sealing and protecting adhesive interfaces between restoration and tooth structure

Advantages
- Finish temporary and permanent restorations in seconds
- Natural gloss and tooth-like fluorescence
- Can be used on all types of direct and indirect restorations
- Nano-filled for better wear resistance
- Works with LED, PAC and halogen curing lights
- Protects against staining and discoloration
- Increase patient satisfaction
- Excellent protection of glass ionomers against moisture and dehydration

Presentation
REF 1016 5 ml bottle, accessories
REF 2245 easy brushes – 50 pack
REF 2315 mixing pallets – 20 pack
## INDIRECT RESTORATION

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- Ufi Gel SC 62
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### Control Silicone
- Fit Test C & B 64
# V-Posil® Heavy Soft Fast · V-Posil® Putty Fast

**Indications**

**V-Posil Heavy Soft Fast** is to be used as heavy body material for:
- One-step impression technique (simultaneous technique) using dual viscosities
- Two-step impression technique using dual viscosities
- Functional impressions

**V-Posil Putty Fast** is used as a preliminary material for:
- Two-step putty-wash impression technique
- One-step putty-wash impression technique
- Two-step putty-wash impression technique using a foil (plastic putty spacer)
- One-step putty impression technique for forming functional peripheries

**Advantages**

- Up to 2 minutes of adjustable working time – gives control over the pace of the procedure while the abbreviated 2-minute thermo-activated set time saves time and improves patient comfort
- The rapid snap set reduces the time in the critical zone by up to 50%, minimizing potential distortion due to human error and resulting in less re-takes
- Heavy Soft Fast material offers an optimal viscosity to load the tray but remains soft enough after it sets for easy removal from the mouth
- Lab technicians will appreciate the post-set hydrophilicity (<6° contact angle), which allows for more accurate stone models and better fitting restorations
- Exceptional tear strength and elastic recovery ensures dimensional accuracy of the impression during and after removal

## Presentation

**V-Posil Heavy Soft Fast**
- REF 2565 V-Posil Heavy Soft Fast Cartridge
  - 1 x 380 ml, mixing tips type 30
- REF 2566 Cartridge 2 x 380 ml
- REF 2567 Cartridge 2 x 50 ml, mixing tips type 16
- REF 2568 Cartridge 10 x 50 ml
- REF 2196 mixing tips type 16 – 50 pack (50 ml)
- REF 2203 mixing tips type 30 – 50 pack (380 ml)

**V-Posil Putty Fast**
- REF 2561 Jar 2 x 450 ml
- REF 2562 Jar 8 x 450 ml
- REF 2564 Cartridge 2 x 380 ml, mixing tips type 30
- REF 2158 Type 2 dispenser (50 ml cartridge)
**Indications**

**V-Posil Light Fast & V-Posil X-Light Fast** are used as syringeable impression materials for:

- Two-step putty-wash impression technique
- One-step putty-wash impression technique
- Two-step impression technique using a foil (plastic putty spacer)
- One-step impression technique (simultaneous technique) using dual viscosities
- Reline impressions
- Fabricating full or partial dentures

**Advantages**

- Excellent flow without slumping
- Up to 2 minutes of adjustable working time – gives control over the pace of the procedure, while the abbreviated 2-minute thermo-activated set time saves time and improves patient comfort
- Setting times of the light body wash and heavy body tray materials are synchronized (match)
- The rapid snap set reduces the time in the critical zone by up to 50%, minimizing potential distortion due to human error and resulting in less re-takes
- Due to its low polyether-like contact angle of less than 10°, V-Posil’s superior hydrophilicity displaces fluids (saliva, blood, etc.) creating an enhanced contact to the dental anatomy and yielding more precise impressions
- Lab technicians will appreciate the post-set hydrophilicity (< 6° contact angle), which allows for more accurate stone models and better fitting restorations
- Exceptional tear strength and elastic recovery ensures dimensional accuracy of the impression during and after removal

**Presentation**

<table>
<thead>
<tr>
<th>V-Posil Light Fast</th>
<th>V-Posil X-Light Fast</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 2573 Cartridge 2 x 50 ml, mixing tips type 7</td>
<td>REF 2575 Cartridge 2 x 50 ml, mixing tips type 7</td>
</tr>
<tr>
<td>REF 2574 Cartridge 10 x 50 ml</td>
<td>REF 2186 mixing tips type 7 – 50 pack</td>
</tr>
<tr>
<td>REF 2186 mixing tips type 7 – 50 pack</td>
<td>REF 2141 intraoral tips type 3 – 50 pack</td>
</tr>
<tr>
<td>REF 2141 intraoral tips type 3 – 50 pack</td>
<td>REF 2158 Type 2 dispenser (50 ml cartridge)</td>
</tr>
</tbody>
</table>

**Clinical Case**

Source: Mauricio Watanabe, Cristian Sánchez, Brazil

*Source: Prof Dr. Watts, University of Manchester, England, 2002*
V-Posil® Mono Fast
Time optimized VPS medium body impression material

**Indications**
V-Posil Mono Fast is used as a medium-bodied tray or syringeable impression material for:
- Taking impressions over fixed/removable restorations and implants (i.e., transferring impression posts and bridge components)
- Functional impressions
- Fabricating crown and bridgework or inlays
- Fabricating full or partial dentures
- Relining impressions
- Transferring root posts when fabricating posts and cores indirectly
- Multi-tray technique
- Use in the simultaneous mixing technique as well as the putty-wash technique

**Advantages**
- Excellent flow without slumping
- Up to 2 minutes of adjustable working time – gives control over the pace of the procedure, while the abbreviated 2-minute thermo-activated set time saves time and improves patient comfort
- Setting times of the light body wash and heavy body tray materials are synchronized (match)
- The rapid snap set reduces the time in the critical zone by up to 50%, minimizing potential distortion due to human error and resulting in less re-takes
- Due to its low polyether-like contact angle of less than 10°, V-Posil’s superior hydrophilicity displaces fluids (saliva, blood, etc.) creating an enhanced contact to the dental anatomy and yielding more precise impressions
- Lab technicians will appreciate the post-set hydrophilicity (< 6° contact angle), which allows for more accurate stone models and better fitting restorations
- Exceptional tear strength and elastic recovery ensures dimensional accuracy of the impression during and after removal

**Presentation**

| REF 2569 | Cartridge 1 x 380 ml, mixing tips type 30 |
| REF 2570 | Cartridge 2 x 380 ml |
| REF 2571 | Cartridge 2 x 50 ml, mixing tips type 16 |
| REF 2572 | Cartridge 10 x 50 ml |
| REF 2196 | Mixing tips type 16 – 50 pack (50 ml) |
| REF 2203 | Mixing tips type 30 – 50 pack (380 ml) |
| REF 2133 | Intraoral tips type 6 – 50 pack |
| REF 2158 | Type 2 dispenser (50 ml cartridge) |

**VOCO Dynamic Dispenser**
Dynamic mixing device

**Indications**
Apparatus for automatic dosing and mixing of VOCO impression materials in the 5:1 cartridge

**Advantages**
- Homogeneous dynamic mixing of V-Posil components to ensure consistently high material quality
- Bubble-free dispensing
- Fill level display
- Two feed speeds
- Electronic residual detection

**Presentation**

| REF 9140 | Mixing device 110 V int. E1 |
| REF 2203 | Mixing tips type 30 – 50 pack (380 ml) |
VOCO Retraction Paste
Astringent retraction paste with extra-long and fine tip that fits directly into the sulcus

**Indications**
For temporary retraction of the marginal gingiva to provide a dry gingival sulcus when the periodontium is healthy prior to, e.g.
– analog or digital impressions
– cementation of temporary and permanent restorations
– preparation of class II and V restorations

**Advantages**
• Aluminum chloride-based – for a clean and dry sulcus
• Unit dose with extra-long, thin and flexible tip – for hygienic, simple and precise application into the sulcus
• 2-Stage Viscosity – initially flowable for easy, low-force application, then stabilizes for optimal retraction
• Turquoise blue color – contrasts well with the gingiva
• Rinseable removal – for quick clean-up without staining
• Up to 50% faster compared to just cord

**Presentation**
| REF 1012 Caps 25 × 0.3 g |
| REF 1013 Caps 100 × 0.3 g |
| REF 9301 Caps Dispenser |

Before
During
After
After

Source: Dr. Susan McMahon
Registrado® X-tra
Extra hard, fast and flexible bite registration A-silicone

Indications
- Bite registration
- Fixing of face bow registration
- Location material for intraoral pin tracing template

Advantages
- Optimal rigidity for precise trimming
- Two-phase set: After 40 sec. the material is hard and dimensionally stable but still elastic for easy removal. Extreme final hardness is reached after 90 sec.
- Firm non-dripping consistency
- Thixotropic for easy application and no occlusion resistance
- Temperature-controlled setting for sufficient application time and short intraoral set time (only 30–40 sec.)
- Good contrast for easy identification

Presentation
- REF 2035 Pack 2 x 50 ml 1:1 cartridges, mixing tips type 16, intraoral tips type 2
- REF 2036 Clinic Pack 8 x 50 ml cartridges, mixing tips type 16, intraoral tips type 2
- REF 2196 mixing tips type 16 – 50 pack
- REF 2140 intraoral tips type 2 – 50 pack
- REF 2158 Type 2 dispenser

Registrado® Clear
Transparent A-silicone fast-setting bite registration material

Indications
- Bite registration
- Registration key for intraoral support pin registration
- Fixation of X-ray balls
- Front and occlusal stamp
- Silicone key for composite fillings

Advantages
- High final end hardness and high translucency
- Guaranteed to remain on the occlusal surface with great consistency
- Time controlled curing process – curing time is accelerated when the patient's mouth is closed
- Perfect for light-curing through the material
- Great dimensional stability (>99%)

Presentation
- REF 2037 Pack 1 x 50 ml 1:1 cartridge, accessories
- REF 2196 mixing tips type 16 – 50 pack
- REF 2140 intraoral tips type 2 – 50 pack
- REF 2158 Type 2 dispenser

Not available in the USA!
Clip
Light-cured provisional filling material in caps or syringes

Indications
All kinds of temporary fillings, temporary protection for inlay and onlay technique

Advantages
- Can be easily removed in one piece
- Easy handling
- Remains flexible even after curing
- Excellent cavity sealing
- Transparent, no discoloration
- Does not stick to instrument
- No material waste
- Time saving – no handmixing required

Presentation
REF 1284 Pack 2 x 4 g syringes
REF 1285 Tripack 3 x 4 g syringes
REF 1287 Pack 25 x 0.2 g Caps
REF 9301 Caps Dispenser

Technical Data
- Depth of cure: 11 mm
- Surface hardness: 90 Shore A
- Diametrical tensile strength: 27 MPa
- Water solubility (14 days): 0.46%
- Marginal seal behavior: 0.5 VAS

Clip Flow
Light-cured, flowable provisional filling material in syringes

Indications
Temporary inlay and onlay treatments of the cavity
Sealing of openings for implant screws
Relining material for temporary crowns and bridges
Block out material for retentive areas in the dental arch, e.g. before taking impressions
Covering of the gingival margin
Fixing of resin matrices during filling placement
Temporary filling of cavities

Advantages
- Easy to place – easy to remove in one piece
- No damage to preparation boundaries
- Durable and saliva-proof
- Non-sticky
- Time-saving through light-curing
- Elastic
- Flowable
- NDT®¹ (Non-Dripping Technology) syringe

Presentation
REF 1282 Pack 2 x 1.8 g syringe, accessories
REF 2148 application tips type 46 – 100 pack

Technical Data
- Water solubility (14 days): 0.46%
Provicol®
Medium retention zinc oxide, non-eugenol temporary cement with calcium hydroxide in syringes, cartridges or tubes

**Indications**
Temporary cementation of crowns and bridges

**Advantages**
- Contains calcium hydroxide which is known to have an antimicrobial effect that reduces postoperative sensitivities
- Good adhesion to temporaries
- Low film thickness for easy placement of temporary crowns & bridges for a perfect fit
- Peelable consistency for easy clean-up
- Highly economical direct application
- No eugenol allergies
- No inhibition of curing reaction of resin-based fillings, cementing materials, or glass ionomer cements

**Presentation**
REF 1074 Pack 5 ml QuickMix syringe, mixing tips type 10
REF 2189 mixing tips type 10 – 50 pack
REF 1076 Pack 2 x 65 g cartridges, 40 mixing tips type 6
REF 2185 mixing tips type 6 – 50 pack
REF 1075 Set 25 g base, 25 g catalyst in tubes

Provicol® QM Plus
High Retention, zinc oxide, non-eugenol

**Indications**
Temporary cementation of provisional restorations (crowns, bridges, inlays and onlays)
Temporary cementation of definitive restorations (crowns, bridges, inlays and onlays)
Temporary obturation of small single-surface cavities

**Advantages**
- Increased strength for more retention and secure adhesion
- Contains calcium hydroxide which is known to have an antimicrobial effect that reduces postoperative sensitivities
- Low film thickness for easy placement of temporary crowns & bridges for a perfect fit
- Peelable consistency for easy clean-up
- Highly economical direct application
- No eugenol allergies
- No inhibition of curing reaction of resin-based fillings, cementing materials or glass ionomer cements
- High level of radiopacity

**Presentation**
REF 1098 Pack 5 ml QuickMix syringe, accessories
REF 2189 mixing tips type 10 – 50 pack
**Provicol® QM Aesthetic**
Translucent zinc oxide, non-eugenol, high retention temporary cement with calcium hydroxide

**Indications**
Temporary cementation of provisional or definitive inlays, onlays, crowns, partial crowns/veneers and bridges
Temporary filling of small one-surface cavities

**Advantages**
- Translucent appearance that will not change the overlying color of the temporary
- Does not permanently adhere to composite-based core-build ups for easy removal
- Very low film thickness (7 µm) enhances the fit and secures an excellent retention
- Semi-elastic consistency allows for an easy clean up and removal
- Contains calcium hydroxide which is known to have an antimicrobial effect that reduces postoperative sensitivities
- Non-eugenol for the use of permanent resin cements and bis-acrylic temporaries
- Radiopaque

**Presentation**
REF 1108 5 ml, QuickMix syringe, accessories
REF 2189 mixing tips type 10 – 50 pack

**Clinical case**
Easy removal of excess material

**Source:** Hamilton Renato Pereira Lima, Santos, São Paulo / Brazil

**Bifix® Temp**
Dual-cured, transparent, composite-based temporary cement material

**Indications**
Temporary cementation of provisional restorations

**Advantages**
- White translucent shade – high esthetics
- Dual-cured – fast setting and “tack cure” for excess removal
- Strong adhesion – secures long-term temporaries
- Easy excess removal in light- and self-cure mode – fast working
- 5 micron film thickness – no “jack-ups” of temporaries
- Short mixing tip – less waste

**Presentation**
REF 1055 Pack 5 ml QuickMix syringe universal, accessories
REF 2188 mixing tips type 9 – 50 pack

**Clinical case**
Easy removal of excess material

**Source:** Hamilton Renato Pereira Lima, Santos, São Paulo / Brazil
**Structur® 2 SC**

**Fast setting temporary BIS-Acrylic crown and bridge material in 1:1 cartridge and QuickMix syringe**

### Indications
Temporary crowns, bridges, inlays and onlays

### Advantages
- Fast setting time: less than 1 minute in the mouth
- Strong and wear-resistant
- Better esthetics: available in 8 popular shades
- Long-term color stability and composite-like polishability
- Quick and easy automix application: ideal bubble-free consistency
- Economical due to smallest possible tips: up to 40% less waste
- MMA-free: no unpleasant taste or smell
- Minimal shrinkage
- Low exothermic setting temperature

### Presentation

<table>
<thead>
<tr>
<th>Shade</th>
<th>Pack 75 g safety cartridge, mixing tips type 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 1479</td>
</tr>
<tr>
<td>A2</td>
<td>REF 1490</td>
</tr>
<tr>
<td>A3</td>
<td>REF 1481</td>
</tr>
<tr>
<td>A3.5</td>
<td>REF 1490</td>
</tr>
<tr>
<td>B1</td>
<td>REF 1482</td>
</tr>
<tr>
<td>Bleach (BL)</td>
<td>REF 1485</td>
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<tr>
<td>C2</td>
<td>REF 1486</td>
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<tr>
<td>REF 1492 Bulk Pack 5 x 75 g cartridges shade A2, mixing tips type 6</td>
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<tr>
<td>REF 1491 Bulk Pack 5 x 75 g cartridges shade A3, mixing tips type 6</td>
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<tr>
<td>REF 2185 mixing tips type 6 – 50 pack</td>
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</tr>
<tr>
<td>REF 2189 mixing tips type 10 – 50 pack</td>
<td></td>
</tr>
<tr>
<td>REF 2158 Type 2 dispenser</td>
<td></td>
</tr>
</tbody>
</table>

**Structur 2 QuickMix syringe**

<table>
<thead>
<tr>
<th>Shade</th>
<th>QuickMix syringe 8 g, mixing tips type 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 1309</td>
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<tr>
<td>A2</td>
<td>REF 1310</td>
</tr>
<tr>
<td>A3</td>
<td>REF 1311</td>
</tr>
<tr>
<td>B1</td>
<td>REF 1312</td>
</tr>
</tbody>
</table>

### Technical Data

- **Working time**: 30–50 sec.
- **Intraoral setting time** (ISO 4049): 40–70 sec.
- **Compressive strength** (ISO 9917): 215 MPa
- **3-Point flexural strength** (ISO 4049): 92.7 MPa
- **Diametral tensile strength**: 30 MPa
- **Modulus of elasticity analogous** (ISO 4049): 2,500 MPa
- **Maximum intrapulpal temperature**: < 40.5 °C – University of Münster

### Clinical case

**Close-Up**

**Detailed view of wax-up**

**Close-ups of the temporary restoration with Structur 2**

*Source: Irfêo Saraiva de Camargo, Santo Agosthino / Brazil*
**Indirect Restoration**

**Fabrication of temporary crowns, bridges, inlays, onlays, partial crowns, veneers and temporary posts**

**Lining of pre-fabricated temporary crowns made from composite materials, polycarbonate or metal**

**Advantages**

- **Fast and Economical**
  - no more polishing – just wipe with alcohol for a brilliant gloss
  - only 45 sec. intraoral setting time
  - small mixing tips and no more “bleeding” before changing mixing tips yields at least 20 more units per cartridge compared to 10:1 and 4:1 products

- **Durable**
  - high fracture resistance and compressive strength
  - suited for long-span bridges and long-term provisionals

- **Esthetic**
  - natural gloss and tooth-like fluorescence
  - color stable for long-term use
  - available in eight VITA®¹ matching shades

---

**Structur® 3**

Nano-filled, quick setting, strong temporary BIS-Acrylic crown & bridge material with “Wipe & Go” Technology

**Technical Data**

- **Working time**: 30–50 sec.
- **Intraoral Setting Time**: 40–70 sec.
- **Compressive Strength**: 509 MPa
- **3-point Flexural Strength**: 113 MPa
- **Diametral Tensile Strength**: 48 MPa
- **E-modulus**: 1,900 MPa
- **Fluorescence**: Yes
- **Setting temperature**: max. 3.6°F above mouth temp.
Indications
Temporary crowns, bridges, inlays and onlays

Advantages

• Ceramic-like esthetics
  • brilliant gloss
  • natural fluorescence
• Hard as enamel
  • high fracture resistance, compressive and tensile strengths – ideal for long-span bridges
• Easy handling
  • fast and easy trimming and polishing
  • minimal inhibition layer
  • 1:1 standard dispenser
  • fast intraoral setting time (30-45 sec.)

Presentation

<table>
<thead>
<tr>
<th>Shade</th>
<th>Pack 75 g safety cartridge, mixing tips type 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 1712</td>
</tr>
<tr>
<td>A2</td>
<td>REF 1713</td>
</tr>
<tr>
<td>A3</td>
<td>REF 1714</td>
</tr>
<tr>
<td>A3.5</td>
<td>REF 1717</td>
</tr>
<tr>
<td>B1</td>
<td>REF 1718</td>
</tr>
<tr>
<td>Bleach (BL)</td>
<td>REF 1716</td>
</tr>
<tr>
<td>REF 1719 Bulk Pack 5 x 75 g cartridges, shade A3, mixing tips type 6</td>
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</tr>
<tr>
<td>REF 2185 mixing tips type 6 (Cartridge) – 50 pack</td>
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<tr>
<td>REF 2158 Type 2 dispenser</td>
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</tbody>
</table>

Technical Data

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Working time</td>
<td>30 sec.</td>
</tr>
<tr>
<td>Setting time in mouth</td>
<td>30-45 sec.</td>
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<tr>
<td>Compressive strength</td>
<td>450 MPa</td>
</tr>
<tr>
<td>Diametral tensile strength</td>
<td>48 MPa</td>
</tr>
<tr>
<td>Transverse strength (10 min.)</td>
<td>100 MPa</td>
</tr>
<tr>
<td>Transverse strength (7 days water storage)</td>
<td>119 MPa</td>
</tr>
<tr>
<td>Flexural modulus</td>
<td>2,500 MPa</td>
</tr>
<tr>
<td>Fluorescence</td>
<td>Yes</td>
</tr>
<tr>
<td>Setting temperature</td>
<td>max. 3.6 °F above mouth temp.</td>
</tr>
</tbody>
</table>

Source: Images are a courtesy of Dr. Frank Milnar

1Not a trademark of VOCO
Grandio Core Dual Cure
Grandio's Nano-technology for core build-ups

**Indications**
- Adhesive core build-up on vital and non-vital teeth
- Cementing of root posts

**Advantages**
- Dentin-like hardness – eliminates ditching
- Stackable consistency
- Nano particles for tooth-like strength and flexibility
- 77% filled for long-lasting success rates
- High radiopacity 365 %Al for easy X-ray identification
- Suitable as a post cement with long endo tips

**Presentation**
- REF 1910 Pack 10 g QuickMix syringe Dentin
- REF 1911 Pack 10 g QuickMix syringe Blue
- REF 1912 Pack 10 g QuickMix syringe White
- REF 2191 mixing tips type 11 - 50 pack
- REF 2142 intraoral tips type 4 - 50 pack

---

**Clinical Case**

- High loss of substance in the anterior area after excavation
- Condition after build-up with Grandio Core Dual Cure, ready for impression
- Final restoration

Source: Dr. Walter Denner, Fulda / Germany
Rebilda® DC
Dual-cured core build-up composite in an automix delivery system

**Indications**
Adhesive core build-up on vital and non-vital teeth
Cementing of fiber-reinforced resin posts

**Advantages**
- Dual-cured: light-cure to accelerate finishing or simply allow Rebilda to self-cure to maximize working time
- Tooth-like surface hardness – cuts like dentin – eliminates ditching
- Low heat development even with large core volumes
- High adhesion with system bond – fewer parapulpal pins
- 3 shades: blue, white and dentin
- High radiopacity
- Fluoride release from both bond and core build-up material
- Curved intraoral tip assists with hard-to-reach areas

**Presentation**

**Cartridge**
- REF 1395 Intro Kit 50 g cartridge Rebilda DC dentin shade, 8 ml Futurabond DC, mixing tips type 12, dispenser type 3, accessories
- REF 1396 Pack 50 g cartridge Rebilda DC dentin shade, mixing tips type 12, intraoral tips type 3
- REF 1397 Pack 50 g cartridge Rebilda DC blue shade, mixing tips type 12, intraoral tips type 3
- REF 1398 Pack 50 g cartridge Rebilda DC white shade, mixing tips type 12, intraoral tips type 3
- REF 2192 mixing tips type 12 – 50 pack
- REF 2141 intraoral tips type 3 – 50 pack
- REF 2199 mixing tips type 19 (bendable) - 30 pack
- REF 2259 Type 3 dispenser

**QuickMix Syringe**
- REF 1402 Intro Kit 10 g QuickMix syringe Rebilda DC dentin shade, 8 ml Futurabond DC, mixing tips type 11, accessories
- REF 1403 Pack 10 g QuickMix syringe Rebilda DC dentin shade, mixing tips type 11, intraoral tips type 4
- REF 1404 Pack 10 g QuickMix syringe Rebilda DC blue shade, mixing tips type 11, intraoral tips type 4
- REF 1405 Pack 10 g QuickMix syringe Rebilda DC white shade, mixing tips type 11, intraoral tips type 4
- REF 2191 mixing tips type 11 – 50 pack
- REF 2142 intraoral tips type 4 – 50 pack
- REF 2159 intraoral tips type 1 (endo tip) – 50 pack

**Technical Data**

<table>
<thead>
<tr>
<th></th>
<th>2 min.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working time</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Setting time</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Transverse strength (ISO 4049)</strong></td>
<td>121 MPa</td>
</tr>
<tr>
<td><strong>Shear bonding strength on dentin</strong></td>
<td>22 MPa</td>
</tr>
</tbody>
</table>

Source: Prof. Dr. Jürgen Manhart, Munich / Germany
Rebilda® Post System

Complete post & core system with fiber-reinforced resin posts

Indications
Endodontic post build-up for support and anchorage of coronal restoration in situations with insufficient tooth substance

Advantages
- Highly translucent for excellent esthetics
- High radiopacity 350% AI
- Dentin-like elasticity for gentle root treatment
- Dentin-like translucency for esthetic restorations
- High retention rate for strong bond
- Excellent light conductivity and diffusion for use with dual-cured materials

Post illustrations are not actual size. ø 1.0 mm is not included in the kit (REF 1770)

Presentation

**REF 1770 Intro Kit:**
15 posts 3 drills: 5 posts each (ø 1.2 mm, ø 1.5 mm, ø 2.0 mm), 1 drill each (ø 1.2 mm, ø 1.5 mm, ø 2.0 mm)

**REF 1782 Rebilda Post System Kit II:**
5 posts each of (ø 1.0 mm, ø 1.2 mm, ø 1.5 mm, ø 2.0 mm), 1 drill each of (ø 1.0 mm, ø 1.2 mm, ø 1.5 mm, ø 2.0 mm), 5 ml Ceramic Bond, 20 Futurabond U SingleDose, 10 g QuickMix syringe Rebilda DC dentin, accessories

Refills (posts):
- Rebilda Post 1.0, 5 Posts, ø 1.0 mm REF 1775
- Rebilda Post 1.2, 5 Posts, ø 1.2 mm REF 1772
- Rebilda Post 1.5, 5 Posts, ø 1.5 mm REF 1773
- Rebilda Post 2.0, 5 Posts, ø 2.0 mm REF 1774
- Ceramic Bond, 5 ml Bottle REF 1106

Refills (drills):
- Rebilda Post 1.0, 1 Drill, ø 1.0 mm REF 1780
- Rebilda Post 1.2, 1 Drill, ø 1.2 mm REF 1777
- Rebilda Post 1.5, 1 Drill, ø 1.5 mm REF 1778
- Rebilda Post 2.0, 1 Drill, ø 2.0 mm REF 1779

Cross-sections show even distribution of the glass fibers

Highly radiopaque

Source: Priv. Doz. Dr. A. Braun, University of Bonn
Rebilda® Post GT
Bundled glass fiber-reinforced resin post

Indications
Core build-up restorations with root posts for endodontically treated teeth

Advantages
- Innovative bundled fine posts enable easy placement within any root canal morphology
- Minimizes the need to mechanically prepare root canals, preserving healthy tooth structure and saving valuable chair time
- Increases surface area within build-up restoration, maximizing adhesion and retention values
- Optimal adaptation to all canal anatomies for better ease-of-use
- All materials in the set are perfectly coordinated to maximize the success of the restoration
- **Futurabond U**
  - reliable self-curing
  - high bond strength without separate etching
- **Rebilda® DC**
  - also suitable for post cementation
  - cuts like dentin to minimize ditching
  - excellent physical properties enhance longevity
  - low setting temperature

<table>
<thead>
<tr>
<th>Presentation</th>
<th>Rebilda Post GT - System</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 1972 Kit 5 posts each of (~ Ø 0.8 mm, ~ Ø 1.0 mm, ~ Ø 1.2 mm, ~ Ø 1.4 mm), Ceramic Bond bottle 5 ml, Futurabond U SingleDose 20 pcs., Rebilda DC dentin QuickMix syringe 10 g, accessories</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Refills Post GT:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5 x No. 4 (~ Ø 0.8 mm)</td>
<td>REF 1973</td>
</tr>
<tr>
<td>5 x No. 6 (~ Ø 1.0 mm)</td>
<td>REF 1974</td>
</tr>
<tr>
<td>5 x No. 9 (~ Ø 1.2 mm)</td>
<td>REF 1975</td>
</tr>
<tr>
<td>5 x No. 12 (~ Ø 1.4 mm)</td>
<td>REF 1976</td>
</tr>
</tbody>
</table>
**Indications**

Self-cured composite cementation material for attachments such as ball, Locator® and telescopic anchors in full and partial dentures.

Reattachment of secondary elements such as bar retainers in acrylic-based dentures.

**Advantages**

- Faster with Quick Up method
  - Work without vent holes and excess material removal
  - Under fill with 2.5 minute fast-setting, self-cured material
  - Finish with light-cured component
- Direct pick-up results with more accuracy compared to indirect method
- Complete system with checking and block out silicone – Fit Test C & B
- Low heat, self-curing material avoids tissue irritations
- Tasteless and odorless
- High bond strength to acrylic denture base
- Allows pick-up of any attachment

**Presentation**

| REF 1625 | Kit 7.5 g QuickMix syringe, 2 g syringe Quick Up LC, 4 ml Adhesive, 5 ml QuickMix syringe Fit Test C & B, accessories |
| REF 1626 | Pack 7.5 g Quick Up QuickMix syringe, type 10 mixing tips |
| REF 1627 | Pack 2 g Quick Up LC syringe, type 44 intraoral tips |
| REF 1628 | Pack 4 ml Quick Up adhesive |
| REF 2189 | Mixing tips type 10 – 50 pack |
| REF 2144 | Intraoral tips type 44 – 100 pack |
| REF 2247 | Single tim – 100 pack |
| REF 2315 | Mixing pallets – 20 pack |

**Quick Up Application**

- Implant with fitted attachments
- Prosthetic base with the recesses for the attachments already created
- Checking the accuracy of the fit with Fit Test C & B
- Checking of attachments for fitting accuracy with Fit Test C & B
- Blocking-out, covering of primary parts/gingiva with Fit Test C & B
- Applying Quick Up from the QuickMix syringe
- Applying Quick Up LC to correct deficits and superficial defects
- Cemented attachment in the prosthesis
**Ceramic Bond**

*One component coupling agent (Silane) available in a bottle or SingleDose*

**Indications**

Coupling agent for achieving optimal chemical adhesion between silicate or aluminum oxide ceramics (incl. zirconium dioxide) and composite materials.

**Advantages**

- Provides optimal conditions for a permanent bond between the indirect restoration and the resin cement

**SingleDose**

- No mixing required
- Easy, quick and hygienic
- No additional devices required
- No spilling in any position

**Presentation**

REF 1107 Pack 50 x .05 ml SingleDose, accessories
REF 1106 5 ml bottle
REF 2247 single tim – 100 pack
REF 2315 mixing pallets - 20 pack

---

**Bifix® SE**

*Dual-cured, universal, self-adhesive resin cement*

**Indications**

Cementation of:
- Crowns
- Bridges
- Inlays and onlays
- Endodontic posts made from ceramic, zirconium dioxide and metal

**Advantages**

- Time saving – no additional bond, prime or etch steps needed
- Ease of use – gel-phase cleanup, no refrigeration, no hand-mixing or trituration required
- High bond strength without an adhesive
- High flexible strength and low water solubility for long-term success
- Low 5–10 micron film thickness – cuts down on adjustment time
- Compatibility with common materials – ceramic and zirconia, CAD/CAM materials, PFMs and metal restorations
- Efficient self-cure mode – sets up completely without any light
- Radiopaque for excellent identification under x-ray

**Presentation**

REF 1784 Kit 3 x 5 g QuickMix syringes, shades U, T and WO, mixing tips type 14 and 15, type 1 intraoral tips
REF 1785 Refill 5 g QuickMix syringe, shade U (universal), mixing tips type 14 and 15, type 1 intraoral tips
REF 1786 Refill 5 g QuickMix syringe, shade T (transparent), mixing tips type 14 and 15, type 1 intraoral tips
REF 1787 Refill 5 g QuickMix syringe, shade WO (white-opaque), mixing tips type 14 and 15, type 1 intraoral tips
REF 2194 mixing tips type 14 – 50 pack
REF 2195 mixing tips type 15 – 50 pack
REF 2139 intraoral tips type 1 – 50 pack

**Technical Data**

| Working time (extra-oral) | 90 sec |
| Setting time | 4 min |
| Film thickness | 5–10 µm |
| Curing depth | 2 mm/20 sec |
| Water solubility | 1µg/mm² |
| Flexural Strength | 160 MPa (LC), 150 MPa (CC) |
| Radiopacity | 227 %AI |
| pH (at application) | 2.5 (acidic) |
| pH (after curing) | neutral |
**Bifix® QM**

Dual-cured, radiopaque, resin-based adhesive cement system

---

**Indications**

**Adhesive cementation of:**
- Inlays and onlays
- Crowns (full and partial)
- Veneers, facets
- Pins and posts
- Bridges and adhesive bridges (Maryland bridges)

**Advantages**

- Easy gel phase clean-up
- Truly universal for all cementation indications and all substrates
- Low film thickness saves occlusal adjustment time
- Low water uptake avoids shade shifting and bond failures
- Fast bonding with dual-cure self-adhesive Futurabond DC
- High radiopacity for easy x-ray identification

---

**Presentation**

<table>
<thead>
<tr>
<th>REF</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1217</td>
<td>Kit 10 g syringe universal, Futurabond DC 4 ml liquid 1, 4 ml liquid 2, 5 ml Ceramic Bond, accessories</td>
</tr>
<tr>
<td>1218</td>
<td>Refill 10 g syringe universal</td>
</tr>
<tr>
<td>1219</td>
<td>Refill 10 g syringe transparent</td>
</tr>
<tr>
<td>1759</td>
<td>Refill 10 g syringe white-opaque</td>
</tr>
<tr>
<td>1106</td>
<td>Refill 5 ml Ceramic Bond</td>
</tr>
<tr>
<td>1163</td>
<td>Pack Futurabond DC 4 ml liquid 1, 4 ml liquid 2</td>
</tr>
<tr>
<td>2191</td>
<td>mixing tips type 11 – 50 pack</td>
</tr>
<tr>
<td>2142</td>
<td>intraoral tips type 4 – 50 pack</td>
</tr>
<tr>
<td>2315</td>
<td>mixing pallets – 20 pack</td>
</tr>
</tbody>
</table>

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film thickness</td>
<td>5–10 µm</td>
</tr>
<tr>
<td>Working time</td>
<td>2.5–3.5 min</td>
</tr>
<tr>
<td>Setting time</td>
<td>3 min after inserting the restoration</td>
</tr>
<tr>
<td>Depth of cure</td>
<td>4 mm/10 s</td>
</tr>
<tr>
<td>Water solubility</td>
<td>&lt;0.3 µg/mm²</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>297 MPa</td>
</tr>
<tr>
<td>Flexural strength</td>
<td>138 (LC) / 113 (CC) MPa</td>
</tr>
</tbody>
</table>

---

Excellent adhesion between Bifix and ceramic.

Source: Prof. Behrend University of Rostock 2006
Meron®/AC
Glass ionomer cement

Indications
Cementation of crowns, bridges, inlays, onlays, pins, posts and orthodontic bands

Advantages
- Very good flow properties for good wetting behavior
- Low film thickness (15–20 µm) that saves occlusal adjustment time
- High translucency for better esthetic results with ceramics
- Easy excess removal – saves time
- High fluoride release
- High bond strength

Presentation
Meron
REF 1086 Pack 35 g powder, 15 ml liquid
REF 1090 Eco Pack 15 g powder, 7 ml liquid
Meron AC
REF 1242 Pack 50 capsules
REF 2331 1 AC Applicator Type 1
REF 2334 1 AC Applicator Type 2
REF 9050 GIC Mixing Device

Meron® Plus / AC
Resin modified glass ionomer cement

Indications
Cementation of crowns, bridges, inlays and onlays made from ceramic, zirconium and metal

Advantages
- Extremely thin film thickness (< 17 µm)
- Prolonged soft-elastic setting phase offers more time for convenient removal of excess material
- Low setting temperature
- Excellent biocompatibility
- Excellent chemical-physical properties due to the VOOC glass ionomer technology

Presentation
Meron Plus
REF 1731 15 g powder
REF 1732 10 ml liquid
Meron Plus AC
REF 1736 Pack 50 application capsules
REF 1737 Pack 150 application capsules
REF 2331 1 AC Applicator Type 1
REF 2334 1 AC Applicator Type 2
REF 9050 GIC Mixing Device

Technical Data
- Working time (ISO 9917-2): 2 min
- Intraoral setting time (ISO 9917-2): 3–5 min
- Compressive strength (ISO 9917-1): 111 MPa
- Film thickness (ISO 9917-2): 11 µm
- Water solubility (ISO 7489): 0.4%
- Shear bond strength to dentin (ISO/TS 11405): 8 MPa
- Adhesion to metal (ISO/TS 11405): 9 MPa
- Radiopacity (ISO 9917-2): > 200 %Al

Not available in Canada!
Meron® Plus QM
Paste-to-Paste resin modified glass ionomer cement in a QuickMix syringe

**Indications**

Cementation of:
- Metal-based inlays, onlays, crowns and bridges
- High-strength (zirconium dioxide-based) all-ceramic crowns and bridges
- High-strength all-ceramic inlays
- Metal, ceramic and fiber posts

**Advantages**

- Twice the bond strength to dentin vs. other leading brands
- Up to twice the adhesive values to Zirconium Dioxide than other leading brands
- Quick and easy clean-up of excess material with optional tack cure
- Low film thickness for a precise marginal fit
- Self-adhesive: secure and quick bonding without primer or conditioner
- QuickMix syringe for optimal application and precise mixing

**Meron Plus QM Clinical Case**

Prepared tooth 11 with chamfer preparation to accommodate the crown

Zirconia crown on tooth 11 on the plaster model

Application of Meron Plus QM in the restoration

Insertion of the restoration

Short-term light-curing (tack curing)

Easy removal of excess material

Additional removal of excess material in the approximal areas using dental floss

Completed treatment

Source: Prof. Dr. Jürgen Manhart, Munich / Germany

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>3-point flexural strength (after thermocycling)** (ISO 9917-2)</td>
<td>31.0 MPa</td>
</tr>
<tr>
<td>Compressive strength (1 month*) (ISO 9917)</td>
<td>111 MPa</td>
</tr>
<tr>
<td>Shear bond strength to human dentin (ISO/TS 11405)</td>
<td>11.3 MPa</td>
</tr>
<tr>
<td>Shear bond strength to human enamel (ISO/TS 11405)</td>
<td>9.1 MPa</td>
</tr>
<tr>
<td>Shear bond strength to ZrO2 (24 h*) (ISO/TS 11405)</td>
<td>11.8 MPa</td>
</tr>
<tr>
<td>Shear bond strength to lithium disilicate (24 h*) (ISO/TS 11405)</td>
<td>8.8 MPa</td>
</tr>
<tr>
<td>Shear bond strength to non-precious metal (ISO/TS 11405)</td>
<td>10.3 MPa</td>
</tr>
<tr>
<td>Film thickness (ISO 9917-2)</td>
<td>11.7 μm</td>
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<tr>
<td>Water solubility (ISO 7489)</td>
<td>0.36%</td>
</tr>
<tr>
<td>Working time (ISO 9917-2)</td>
<td>120 sec.</td>
</tr>
<tr>
<td>Setting time (ISO 9917-2)</td>
<td>4 min 30 sec.</td>
</tr>
<tr>
<td>Radiopacity (ISO 9917-2)</td>
<td>198 %Al</td>
</tr>
<tr>
<td>Fluoride release (60 d, 37 °C water storage)</td>
<td>662 ppm</td>
</tr>
</tbody>
</table>

**Presentation**

REF 1727 Pack 8.5 g QuickMix syringe
REF 1728 Set 3 × 8.5 g QuickMix syringe
REF 2189 mixing tips type 10 – 50 pack
BrackFix®
Light-cured orthodontic bracket adhesive

**Indications**
Direct attachment of orthodontic metal and ceramic brackets

**Advantages**
- Optimal adhesive consistency provides stable positioning of the bracket on the tooth surface
- Fluorescent Technology reveals adhesive residues under UV light after bracket removal for easy identification
- Enables an easier, quicker and more precise residue removal step
- Light-cured to give practitioner greater control over the required working time
- Can be exposed to loads (chewing forces) immediately after polymerization

**Presentation**
- REF 1205 Kit 2 x 4 g adhesive syringes, 6 ml primer bottle, accessories
- REF 1206 SE Kit 2 x 4 g adhesive syringe, 40 primer SingleDose, accessories
- REF 1208 Refill 6 ml primer bottle
- REF 1207 Refill 2 x 4 g adhesive syringe
- REF 1209 Refill 50 primer SE SingleDose, accessories
- REF 2247 Single Tim application brushes – 100 pack
- REF 2315 mixing pallets – 20 pack

**BrackFix Application**
- **Etching of enamel surface**
- **Application of BrackFix Primer**
- **Simple and secure positioning on the tooth**
- **Tooth 8 (upper right central incisor) prior to polymerization and removal of excess adhesive**
- **Under UVA light (for demonstration purposes)**
- **Illumination with UVA light following removal of brackets**
- **Controlled removal of BrackFix residues**
- **Final check with UVA light: No adhesive residues remain**

Source: Dr. Felipe Moura / Brazil
**Ufi Gel® SC**  
*A-silicone based permanently soft chairside denture relining material in a 1:1 cartridge system*

### Indications
- Permanent soft relining for total and partial dentures
- To relieve pressure from pressure spots
- To dam the palatal vibrating line
- In cases of flabby ridge and insufficient adhesion
- To cushion sharp-edged alveolar processes
- To support the healing process in implantology

### Advantages

#### In-Office
- Complete chairside relining within minutes in one appointment
- Extremely high adhesion between denture and relining material with a special adhesive
- Biocompatible, tasteless and odorless
- Esthetic stable color, shade adaptation effect

#### Lab
- Fewer working steps than conventional cold-curing products
- Only 1 minute processing of adhesive and short time period in the pressure unit
- Relining can be repaired immediately after setting and up to 14 days after initial relining

### Presentation

<table>
<thead>
<tr>
<th>REF</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2041</td>
<td>Kit 50 ml cartridge Ufi Gel SC, 10 ml adhesive, 10 ml glazing base/catalyst, 10 mixing tips type 8, accessories</td>
</tr>
<tr>
<td>2040</td>
<td>Refill 50 ml cartridge, 10 mixing tips type 8</td>
</tr>
<tr>
<td>2029</td>
<td>Refill 10 ml Ufi Gel SC adhesive</td>
</tr>
<tr>
<td>2047</td>
<td>Refill each 10 ml glazing base/catalyst</td>
</tr>
<tr>
<td>2187</td>
<td>Mixing tips type 8 – 50 pack</td>
</tr>
<tr>
<td>2049</td>
<td>Trimming discs – 10 pack</td>
</tr>
</tbody>
</table>

---

**SC**  
Self-curing  
**auto**  
Mix
Ufi Gel® hard C
Direct hard denture relining material in a 1:1 cartridge based on composite technology

Indications
Hard, permanent chairside relining
Direct and indirect relining
Total or partial relining
External relinings (extended care living facility, homes for the disabled, hospitals)
Extensions of denture margins
Repairs and enlargements
Adaptation layer by layer over the course of years

Advantages
• Complete chairside hard relining in 10–15 minutes
• MMA-free
• Biocompatible with a neutral taste and smell
• Low exothermic temperature (98.6° F)
• Bubble-free automix application ensures a smooth surface
• Esthetic and color stable
• Achieves the same hardness, finishing and cleaning as laboratory-processed relines
• Easy and time-saving working steps

Presentation
REF 2215 80 g cartridge, 10 ml adhesive, mixing tips type 8
REF 2218 Intro Kit 80 g cartridge, 10 ml adhesive, dispenser type 2, mixing tips type 8
REF 2216 Refill 80 g cartridge, mixing tips type 8
REF 2217 10 ml adhesive bottle
REF 2187 mixing tips type 8 – 50 pack
REF 2315 mixing pallets – 20 pack

As simple as an impression

Apply adhesive
Apply Ufi Gel hard C
Functional movements
Remove excess

... then let denture full cure in the mouth.
Fit Test® C & B
Control silicone to check the fit of prosthetic pieces

Indications
For the precise control and fit of marginal gaps and adaptation of:
- crowns (full and partial)
- bridges
- inlays/onlays
- cast metal cores, crowns
- metal denture bases
- attachments and other secondary parts of dentures

Advantages
- Fast diagnostic aid/tool for all restorative applications
- QuickMix syringe for easy and precise application
- Optimal blue color for metal and ceramic restorations
- Fast results due to short 45 sec. setting time
- Extremely tear resistant for complete and easy one-piece removal

Presentation
REF 2095 5 ml QuickMix syringe, mixing tips type 9
REF 2188 mixing tips type 9 – 50 pack

Technical Data
<table>
<thead>
<tr>
<th></th>
<th>Fit Test C &amp; B</th>
<th>Fit Checker ™</th>
<th>Fit Checker II ™</th>
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</thead>
<tbody>
<tr>
<td>Working time</td>
<td>max. 1 min 45 sec.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setting time</td>
<td>45 secs. – 1 min 15 secs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tear resistance</td>
<td>48.5 N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Time required (Fit Test C & B)
- Mixing ~ 1 s
- Working time ~ 1 min 45 s
- Setting time ~ 45 s

Time required (Competitor A)
- Mixing ~ 20 s
- Working time ~ 2 min 00 s
- Setting time ~ 1 min 15 s

Conventional wash material (Competitor B)
- Mixing ~ 40 s
- Working time ~ 1 min 30 s
- Setting time ~ 4 min 00 s

Situation after preparation
Direct application of Fit Test C & B
Seating and intraoral setting
Removal of the restoration
Non-optimal fit is visualized in the restoration ...
... and after removal of Fit Test C & B.

Source: Dr. Arne Kersting, Germany
# DIGITAL TECHNOLOGY

## CAD/CAM Blocks/Disc
- Grandio blocs Universal 67
- Grandio blocs PlanMill 68
- Grandio disc 69
- Structur CAD 69

## Digital Dentures
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- CediTEC® DT Denture Teeth 70
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## V-Print Materials
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- V-Print splint 72
- V-Print c&b temp 73
- V-Print SG 73
- V-Print Try-In 74
- V-Print cast 74
- V-Print tray 75
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- V-Print model fast 76

## Polymerization Unit
- OtoFlash 76
DIGITAL WORKFLOW

ADDITIVE VS. SUBTRACTIVE

DIGITAL SCAN

C.A.M. SOFTWARE¹

C.A.D. SOFTWARE²

NESTING/SLICING

SLICING

C.A.D. /C.A.M. MATERIALS

PRINTING RESINS

BLOCKS/DISCS

C.A.M. – COMPUTER AIDED MANUFACTURING

3D-PRINTER

MILLING UNIT

POST PROCESSING

CLEANING, REMOVING SUPPORT STRUCTURES, POST-EXPOSURE, GRINDING AND POLISHING

CLEANING, REMOVING SPRUE, POLISHING

Full Crown
Temporary Crown
Temporary Bridge
Study Models
Partial Crown
Inlay
Model
Splint
Night Guards
Bridge
Dentures
Surgical Guide
Casting

1 Computer Aided Manufacturing
2 Computer Aided Design
Grandio blocs Universal
Resin Nano-Ceramic Hybrid CAD/CAM Block

Indications
Crowns, inlays, onlays, veneers
Implant supported crowns

Advantages
- 86% filled for enhanced strength and excellent wear resistance
- Tooth-like elasticity and thermal expansion allows for thinner crown margins
- Natural esthetics with enhanced color stability and polish retention
- No firing or glazing required, reducing steps and saving time for true one-appointment dentistry
- Easy intraoral polishability, characterization and repair

Presentation

<table>
<thead>
<tr>
<th>Shade</th>
<th>5 x Gr. 12 Low translucent (LT)</th>
<th>Shade</th>
<th>5 x Gr. 14L Low translucent (LT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 LT</td>
<td>REF 6003</td>
<td>A1 LT</td>
<td>REF 6018</td>
</tr>
<tr>
<td>A2 LT</td>
<td>REF 6004</td>
<td>A2 LT</td>
<td>REF 6019</td>
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<td>A3 LT</td>
<td>REF 6005</td>
<td>A3 LT</td>
<td>REF 6020</td>
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<td>A3.5 LT</td>
<td>REF 6006</td>
<td>A3.5 LT</td>
<td>REF 6021</td>
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<td>B1 LT</td>
<td>REF 6007</td>
<td>B1 LT</td>
<td>REF 6022</td>
</tr>
<tr>
<td>C2 LT</td>
<td>REF 6008</td>
<td>C2 LT</td>
<td>REF 6023</td>
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<tr>
<td>BL LT</td>
<td>REF 6009</td>
<td>BL LT</td>
<td>REF 6024</td>
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<table>
<thead>
<tr>
<th>Shade</th>
<th>5 x Gr. 12 High translucent (HT)</th>
<th>Shade</th>
<th>5 x Gr. 14L High translucent (HT)</th>
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<tbody>
<tr>
<td>A1 HT</td>
<td>REF 6012</td>
<td>A1 HT</td>
<td>REF 6027</td>
</tr>
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<td>A2 HT</td>
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<td>A3 HT</td>
<td>REF 6014</td>
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<td>A3.5 HT</td>
<td>REF 6015</td>
<td>A3.5 HT</td>
<td>REF 6030</td>
</tr>
</tbody>
</table>

Gr. 12

Gr. 14L

Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength</td>
<td>530 MPa analog ISO 9917</td>
</tr>
<tr>
<td>Biaxial Flexural strength</td>
<td>333 MPa</td>
</tr>
<tr>
<td>Modulus of elasticity</td>
<td>18.28 GPa</td>
</tr>
<tr>
<td>Thermal expansion coefficient</td>
<td>16.0 \times 10^{-6} \text{ K}^{-1}</td>
</tr>
<tr>
<td>Filler content</td>
<td>86% by weight</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>308% Al</td>
</tr>
<tr>
<td>Water absorption</td>
<td>13.6 \mu g/mm² analog ISO 4049</td>
</tr>
<tr>
<td>Water solubility</td>
<td>&lt; 0.1 \mu g/mm² analog ISO 4049</td>
</tr>
<tr>
<td>Vickers hardness (HV)</td>
<td>154.6</td>
</tr>
<tr>
<td>Two-body-wear (specimen)</td>
<td>59.9 \mu m</td>
</tr>
<tr>
<td>Two-body-wear (antagonist)</td>
<td>98.1 \mu m</td>
</tr>
</tbody>
</table>

*Available in the US & Canada ONLY through Henry Schein and Patterson Dental

Source: Dr. Felipe Moura, Brazil
**Grandio blocs PlanMill®**

*Resin Nano-Ceramic Hybrid CAD/CAM Block*

**Indications**
Crowns, inlays, onlays, veneers
Implant supported crowns

**Advantages**
- **86% filled** for enhanced strength and excellent wear resistance
- Tooth-like elasticity and thermal expansion allows for thinner crown margins
- Natural esthetics with enhanced color stability and polish retention
- No firing or glazing required, reducing steps and saving time for true one-appointment dentistry
- Easy intraoral polishability, characterization and repair

**Presentation**

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<th>Shade</th>
<th>5 x Gr. 12 Low translucent (LT)</th>
<th>Shade</th>
<th>5 x Gr. 14L Low translucent (LT)</th>
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<tbody>
<tr>
<td>A1 LT</td>
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<td>A1 LT</td>
<td>REF 6168</td>
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<td>A2 LT</td>
<td>REF 6154</td>
<td>A2 LT</td>
<td>REF 6169</td>
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<tr>
<td>A3 LT</td>
<td>REF 6155</td>
<td>A3 LT</td>
<td>REF 6170</td>
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<td>A3.5 LT</td>
<td>REF 6156</td>
<td>A3.5 LT</td>
<td>REF 6171</td>
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<td>B1 LT</td>
<td>REF 6157</td>
<td>B1 LT</td>
<td>REF 6172</td>
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<tr>
<td>C2 LT</td>
<td>REF 6158</td>
<td>C2 LT</td>
<td>REF 6173</td>
</tr>
<tr>
<td>BL LT</td>
<td>REF 6159</td>
<td>BL LT</td>
<td>REF 6174</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shade</th>
<th>5 x Gr. 12 High translucent (HT)</th>
<th>Shade</th>
<th>5 x Gr. 14L High translucent (HT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 HT</td>
<td>REF 6127</td>
<td>A1 HT</td>
<td>REF 6177</td>
</tr>
<tr>
<td>A2 HT</td>
<td>REF 6128</td>
<td>A2 HT</td>
<td>REF 6178</td>
</tr>
<tr>
<td>A3 HT</td>
<td>REF 6129</td>
<td>A3 HT</td>
<td>REF 6179</td>
</tr>
<tr>
<td>A3.5 HT</td>
<td>REF 6130</td>
<td>A3.5 HT</td>
<td>REF 6180</td>
</tr>
</tbody>
</table>

**Technical Data**
- Compressive strength: 530 MPa analog ISO 9917
- Biaxial Flexural strength: 333 MPa
- Modulus of elasticity: 18.28 GPa
- Thermal expansion coefficient: 16.0·10⁻⁶ K⁻¹
- Filler content: 86% by weight
- Radiopacity: 308% Al
- Water absorption: 13.6 μg/mm³ analog ISO 4049
- Water solubility: < 0.1 μg/mm³ analog ISO 4049
- Vickers hardness (HV): 154.6
- Two-body-wear (specimen): 59.9 μm
- Two-body-wear (antagonist): 98.1 μm

Source: Dr. Felipe Moura, Brazil
**Grandio disc**
Nano-ceramic hybrid CAD/CAM disc

### Indications
- Crowns, inlays, onlays, veneers, implant supported crowns

### Advantages
- Multi-shade “invisible layer technology” for high esthetics
- No firing required for true one appointment dentistry
- No shrinkage allows for 20% more restorations per disc than zirconia
- 86% filled for enhanced strength and excellent wear resistance
- Tooth-like elasticity and thermal expansion allows for thinner crown margins
- Natural esthetics with enhanced color stability and polish retention
- Easy intraoral polishability, characterization and repair

### Technical Data
- **Compressive strength**: 530 MPa analog ISO 9917
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- **Vickers hardness (HV)**: 154.6
- **Two-body-wear (specimen)**: 59.9 μm
- **Two-body-wear (antagonist)**: 98.1 μm

### Structur® CAD
**CAD/CAM Composite for Long-term Temporary Crown & Bridges**

### Indications
- Temporary bridges spanning up to two pontics
- Temporary abutment crowns
- Temporary crowns

### Advantages
- Composite based for higher strength and esthetics
- Temporaries last for up to three years (1 year in CAN)
- High gloss, shade stability and natural fluorescence
- Excellent edge stability and fracture resistance
- Customizable and repairable with composite
- No need to use an MMA primer
- Economical manufacturing of temporaries

### Presentation

#### Shade Low translucent (LT) ø 98.4 mm, 15 mm Shade High translucuent (HT) ø 98.4 mm, 15 mm
A1 LT REF 6050 A1 HT REF 6057
A2 LT REF 6051 A2 HT REF 6058
A3 LT REF 6052 A3 HT REF 6059
A3.5 LT REF 6053 A3.5 HT REF 6060
B1 LT REF 6054
C2 LT REF 6055
BL LT REF 6056
A1 MS REF 6216
A2 MS REF 6217
A3 MS REF 6218
A3.5 MS REF 6219
B1 MS REF 6220
C2 MS REF 6221

### Structural and Radiopacity
- **Incisal layer**
- **Basic tooth shade**
- **Cervical layer**
CediTEC® Adhesive

Adhesive cementation system for denture teeth to denture bases

**Indications**
Luting of prefabricated prosthetic teeth and CAD / CAM-produced individual teeth and tooth sections in CAD / CAM-produced denture bases
Cementation of prosthetic teeth in the scope of a repair or extension

**Advantages**
- Automix direct application
- Saves time
- Avoids air bubbles
- Prevents mixing errors
- Always perfect consistency
- Easy add-ons possible
- Compatible with other conventional PMMA materials

**Presentation**
- REF 6082: Set cartridge 80 g CediTEC Adhesive, bottle 4 ml CediTEC Primer, accessories
- REF 2202: Mixing tips type 20, 50 pcs.
- REF 2245: Easy Brush, application brushes, 50 pcs.

CediTEC® DT Denture Teeth

CAD / CAM composite for denture teeth

**Indications**
Prosthetic teeth and tooth sections up to complete dental arches for removable dentures

**Advantages**
- Composite Disc has multiple advantages over PMMA
  - Higher strength and durability
  - Translucency for better esthetics
  - Repairable
  - Easy characterization without MMA primer
  - Effortless polishability

**Presentation**
- Shade Disc
  - A1: REF 6085
  - A2: REF 6086
  - A3: REF 6086
  - BL: REF 6087
CediTEC® DB Denture Base
High-impact PMMA for the fabrication of denture bases for removable dentures

**Indications**
Removable denture base

**Advantages**
- PMMA with high impact resistance and strength for a long wearing period
- High-quality denture bases, reproducible at any time
- Three shades for esthetic results
- Very good polishability – individualization possible at any time

<table>
<thead>
<tr>
<th>Presentation</th>
<th>Shade</th>
<th>Disc ø 98 mm, 30 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pink</td>
<td>REF 6195</td>
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<tr>
<td></td>
<td>dark-pink</td>
<td>REF 6196</td>
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<tr>
<td></td>
<td>orange-pink</td>
<td>REF 6197</td>
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</table>

V-Print® dentbase
Light-curing resin for the generative production of denture bases for removable dentures

**Indications**
Removable denture bases

**Advantages**
- Chameleon effect to match the gingiva with only one shade
- No sedimentation – therefore, no shaking or “rolling” prior to use
- Biocompatible with FDA 510k clearance
- Compatible with all leading reline materials
- High green strength for safe removal from the building platform

<table>
<thead>
<tr>
<th>Presentation</th>
<th>Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE 6048 Bottle 1,000 g pink</td>
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</tbody>
</table>
**V-Print® splint comfort**

*FDA 510k licensed biocompatible 3D print resin to produce clear thermo-flexible therapeutic splints, aligners and night-guards*

**Indications**
- Therapeutic splints
- Patient-matched night guards/splints
- Auxiliary parts and functional parts for diagnostics

**Advantages**
- High flexural strength and excellent wear resistance allow for devices as thin as 1 mm
- Thermo-flexibility, biocompatibility, odorless and neutral flavor increases patient acceptance
- Extremely fracture resistant and durable
- Clear-transparent, easy to polish and color stable for excellent esthetics
- FDA 510 clearance

**Presentation**
- REF 6126 Bottle 1,000 g clear

- No sedimentation – therefore, no shaking or “rolling” prior to use
- Validated for 3D printers from Asiga, Dental Wings, RapidShape, Microlay, Shera, Straumann and VOCO.

For a complete list go to www.voco.dental/3dprintingpartners

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**V-Print® splint**

*Material for 3D printing of splints, night-guards and other diagnostic parts*

**Indications:**
Production of:
Therapeutic splints
Patient-matched night guards/splints-
Auxiliary parts and functional parts for diagnostics

**Advantages**
- FDA 510k cleared
- Biocompatibility and neutral flavor ensure high level of patient acceptance
- Esthetically pleasing clear-transparent results
- Rigid with high flexural strength for durable orthodontic objects
- Easy to polish and stain resistant

**Presentation**
- REF 6044 Bottle 1,000 g clear

- No sedimentation – therefore no shaking or “rolling” prior to use
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.

For a complete list go to www.voco.dental/3dprintingpartners
## V-Print® c&b temp
3D print resin for highly esthetic long-term temporaries

### Indications
Long-term temporary crowns, bridges and mock-ups

### Advantages
- Highly-filled 3D printing material – formulated for long-term application
- Excellent physical properties:
  - high flexural strength and modulus of elasticity for stable temporaries
  - high abrasion resistance for long wearing time
  - low water absorption and solubility for mechanical stability
  - discoloration resistant – no discoloration with long wearing time
- Natural fluorescence – for high esthetic demands
- Easy to process and polish

### Presentation
<table>
<thead>
<tr>
<th>REF</th>
<th>Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>6897</td>
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<td>A3</td>
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<tr>
<td>6900</td>
<td>A3.5</td>
</tr>
<tr>
<td>6901</td>
<td>B1</td>
</tr>
<tr>
<td>6902</td>
<td>BL (Bleach)</td>
</tr>
</tbody>
</table>

- Composite printing material – quick to characterize or adapt.

For a complete list go to [www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)

## V-Print® SG
Material for 3D printing transparent surgical guides

### Indications
Dental drilling templates

### Advantages
- Autoclavable at 250 °F/134 °C
- Optimal flow properties
- High precision for optimal fit
- Excellent green-state stability, so not subject to distortion
- High flexural stability
- Biocompatible
- Neutral flavor

### Presentation
<table>
<thead>
<tr>
<th>REF</th>
<th>Type</th>
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<tr>
<td>6043</td>
<td>Bottle 1,000 g clear</td>
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</tbody>
</table>

- No sedimentation – therefore no shaking or “rolling” prior to use
- FDA cleared class I medical device
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.

For a complete list go to [www.voco.dental/3dprintingpartners](http://www.voco.dental/3dprintingpartners)
### V-Print® Try-In

**Light-curing resin for the generative production of try-ins for prosthetics**

<table>
<thead>
<tr>
<th>Indications</th>
<th>Advantages</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Try-ins for total and partial prosthetics</td>
<td>• Verification and possibility to assess the fit, occlusion, functionality, phonation and esthetics before the production of prosthetics</td>
<td>REF 6049 Bottle 1,000 g beige</td>
</tr>
<tr>
<td>Transfer and grinding templates</td>
<td>• Biocompatible</td>
<td></td>
</tr>
<tr>
<td>Correction impressions and occlusal impressions</td>
<td>• FDA cleared class I medical device</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• No sedimentation – therefore no shaking or “rolling” prior to use</td>
<td>For a complete list go to <a href="http://www.voco.dental/3dprintingpartners">www.voco.dental/3dprintingpartners</a></td>
</tr>
</tbody>
</table>

**NEW**

### V-Print® cast

**Light-curing resin for the generative production of burn-out objects for casting and pressing processes**

<table>
<thead>
<tr>
<th>Indications</th>
<th>Advantages</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production of objects which can be burned out without leaving any residues for casting processes and press ceramics</td>
<td>• Reproducible – simple duplication prior to casting</td>
<td>REF 6045 Bottle 1,000 g blue</td>
</tr>
<tr>
<td></td>
<td>• Quick finishing process – precisely printed objects allow for high quality of reproduction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• High form and edge stability – reliable checking of occlusion and lateral movements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Fast and instrument-saving finish already at green state</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• High compatibility – can be used with commercially available phosphate-bonded investment materials</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Restorations free of impurities – V-Print cast burns without residue</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• No sedimentation – therefore no shaking or “rolling” prior to use</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• FDA cleared class I medical device</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.</td>
<td></td>
</tr>
</tbody>
</table>

For a complete list go to www.voco.dental/3dprintingpartners
### V-Print® tray

**Light-curing resin for the generative manufacture of individual trays, base plates and occlusal registrations using CAD / CAM technology**

<table>
<thead>
<tr>
<th>Indications</th>
<th>Advantages</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| Individual impression and function trays  
Bases for bite templates and wax assemblies for full dentures  
Occlusal registrations | - Timesaving – printable in high layer thicknesses (up to 200 µm)  
- Distortion-free impressions – thanks to the great strength  
- Universal – suitable for all types of impression material  
- Rapid and efficient – object printing including the forming of functional peripheries, retention elements and gaps for implant impressions.  
- Biocompatible | REF 6047 Bottle 1,000 g blue |

- No sedimentation – therefore no shaking or “rolling” prior to use  
- FDA cleared class I medical device  
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.

For a complete list go to www.voco.dental/3dprintingpartners

### V-Print® model 2.0

**Material for 3D printing models**

<table>
<thead>
<tr>
<th>Indications</th>
<th>Advantages</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 3D printing of crown and bridge models and ortho models | - Fast and Precise - excellent fit, even with 100 micron layers  
- Suitable for overnight print jobs – does not need to be continually mixed to avoid sedimentation  
- Easily trimable without undesirable changes (e.g. caused by heat from instruments.)  
- Scratch-resistant hard surface for trial fitting without deforming  
- Heat resistant - can be used with vacuum thermoforming for retainers and aligners. | REF 6042 Bottle 1,000 g beige |

- No sedimentation – therefore no shaking or “rolling” prior to use  
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.

For a complete list go to www.voco.dental/3dprintingpartners
V-Print® model fast
Material for 3D printing models

**Indications**
Generative production of dental models, especially for the dental deep-drawing process (e.g. aligner or retainers)

**Advantages**
- Time-saving – for fast printing in high layer thickness without loss of quality
- Suitable for vacuum forming – temperature resistant as a basis for e.g. aligner or retainer splints
- High strength and material saving – the high strength allows material-efficient hollowing of the models
- Easy to separate from thermoforming materials

**Presentation**
REF 6125 Bottle 1,000 g blue
- No sedimentation – therefore no shaking or “rolling” prior to use
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.

For a complete list go to www.voco.dental/3dprintingpartners

OtoFlash
Post-curing unit for light-curing resin materials

**Advantages**
- Short curing times as a result of two underside flash bulbs
- Reliable curing due to intensive light output in a wavelength range of 280–580 nm
- Available in two models: OtoFlash Classic and OtoFlash with Protective Gas Line (gas not provided, should be obtained locally)

**Product overview**
The Otoflash G171 is a flash-light polymerization device for the final curing of 3D printed appliances. It has two flash bulbs at the bottom that are operated at a frequency of 10 flashes per second, making it one of the fastest post-curing units on the market. When flashing, the flash bulbs generate highly intensive light radiation, which ranges from 300 to 700 nm. Because of this extremely concentrated light radiation, the printed parts come to their final hardness more thoroughly, and thus the physical values are enhanced. In addition, this concentrated light is responsible for reducing the residual monomer count, meeting biocompatibility demands for parts that will be used intraorally.

It is available with a protective nitrogen gas port, which when connected to a nitrogen source, will displace oxygen in the curing chamber, thereby reducing the exposure of the printed pieces to oxygen. This feature is to prevent the formation of an oxygen-inhibited layer, which can weaken the final result and quality of the printed part.

Nitrogen source should be obtained locally.

**Technical Specifications**
- Flash frequency: 10 flashes per second
- Dimensions of polymerization chamber: 120 x 120 x 50 mm / 4.72 x 4.72 x 1.97 in
- Rated voltage: 100, 115, 230 volt AC, adjustable by switch
- Power input: 250 watt
- Spectral distribution: 280–700 nm
  - maximum between 400 and 500 nm
- Digital timer: adjustable from 1 to 9,999 flashes
- Dimensions: 310 x 310 x 140 mm / 12.2 x 12.2 x 5.5 in
- Weight: 6 kg / 13.3 lbs
TIPS, LAB, DISPENSERS, ETC.

Cleaning Agent/Custom Trays
Traypurol tabs 78
Individo Lux 78
Profibase 78

Devices & Disposables
Mixing Pallet, Pele Tim, Dispenser, Applicator, Activator 79
Mixing Tips 80
Intraoral tips 80
Tims, Brushes, Polishing Disc, etc. 81
Traypurol tabs
Activated tabs for cleaning impression trays and instruments

Advantages
• Quickly removes alginate and cements
• Completely dissolves in water without scrubbing
• Dosing is simple
• 2 tabs per quart of cleaning solution
• Biodegradable, pH-neutral
• Gentle to material, safe for all rust-proof metals (including aluminum) and plastics
• Solution is effective for up to 72 hours

Individo Lux
Light-curing custom tray material in two contoured forms for maxillae or mandibles

Advantages
• Very stable and non-sticky trays
• Peppermint flavor and pleasant smell
• Short curing time under halogen light devices or UVA-light
• Available in blue or transparent shade

Profibase
Light-curing pink-transparent base plates for easy and economical production of wax models

Advantages
• Stable and pressure-proof
• Tissue-like shade increases acceptance by dentists and patients
• Peppermint flavor and pleasant smell
• Short curing time under halogen light devices or UVA-light
### OTHERS

#### DEVICES & DISPOSABLES

<table>
<thead>
<tr>
<th><strong>Mixing Pallet</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image]</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Pele Tim</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image]</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dispenser</strong></th>
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<tbody>
<tr>
<td>![Image]</td>
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<table>
<thead>
<tr>
<th><strong>Mixing Pallet</strong></th>
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<tbody>
<tr>
<td><strong>Presentation</strong></td>
</tr>
<tr>
<td>REF 2315 Mixing Pallets – 20 pack</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Pele Tim</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Available shapes and sizes</strong></td>
</tr>
<tr>
<td>Not available in Canada!</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dispenser</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Presentation</strong></td>
</tr>
<tr>
<td>REF 2158 type 2 for Structur 3, Structur Premium, Structur 2 SC, Provicol C, Ufi Gel SC, Registrado X-tra, V-Posit (1:1/2:1)</td>
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<tr>
<td>REF 2259 type 3 for Rebilda DC (DS25 1:1)</td>
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<tr>
<th><strong>AC Applicator</strong></th>
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<tr>
<td><strong>Type 1 and Type 2</strong></td>
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<tr>
<td><strong>Presentation</strong></td>
</tr>
<tr>
<td>REF 2331 1 AC Applicator Type 1</td>
</tr>
<tr>
<td>REF 2334 1 AC Applicator Type 2</td>
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</table>

<table>
<thead>
<tr>
<th><strong>AC Activator</strong></th>
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<tbody>
<tr>
<td><strong>Device to activate VOCO application capsules (AC)</strong></td>
</tr>
<tr>
<td><strong>Presentation</strong></td>
</tr>
<tr>
<td>REF 9300 1 AC Activator</td>
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<thead>
<tr>
<th><strong>Caps Gun</strong></th>
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<tbody>
<tr>
<td><strong>Low force composite dispenser</strong></td>
</tr>
<tr>
<td><strong>VisCalor Dispenser</strong>: Preheating dispenser for VisCalor/VisCalor bulk, and all other VOCO composites packaged in a capsule</td>
</tr>
<tr>
<td><strong>Presentation</strong></td>
</tr>
<tr>
<td>REF 9301 Caps Dispenser compatible with all VOCO composite, ORMOCER, nano-ORMOCER, provisional composite and compomer capsules and VOCO Retraction Paste</td>
</tr>
<tr>
<td>REF 9143 VisCalor Dispenser – Preheating device</td>
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</table>
### Mixing Tips

**REF 2185** Mixing tips type 6 for Structur 3, Structur Premium, Structur 2 SC, Provicol C – 50 pack

**REF 2191** Mixing tips type 11 for Rebilda DC QM syringes, Bifix QM, Fit Test C&B with Quick Up method, Grandio® Core Dual Cure – 50 pack

**REF 2195** Mixing tips type 15 with intraoral tips type 1 for Bifix SE – 50 pack

**REF 2202** Mixing tips type 20 (Die Silicone) – 50 pack

**REF 2203** Mixing tip type 30 for V-Posil Heavy Soft Fast, Mono Fast and Putty Fast 380 ml Cartridge – 50 pack

### Intraoral Tips

**REF 2146** Pack type 41 for Ionoseal, Grandio/SO Flow, Admira Fusion Flow, Calcimol LC, etc. – 100 pack

**REF 2144** Pack type 44 for Amaris Flow, Admira Flow, GrandioSO Light Flow, Quick Up LC – 100 pack

**REF 2140** Pack type 2 for Registrado X-tra, Registrado Clear – 50 pack

**REF 2132** Pack type 48 for Vococid – 50 pack

**REF 2147** Pack type 45 for Amaris Gingiva, GrandioSO Light Flow, Grandio Seal – 100 pack

**REF 2131** Pack type 47 for Calcicur – 30 pack

**REF 2141** Pack type 3 for Rebilda DC in cartridge, V-Posil Light Fast and X-Light Fast – 50 pack

**REF 2142** Pack type 4 for Rebilda DC QM syringes, Bifix QM, Grandio Core Dual Cure – 50 pack

**REF 2140** Pack type 2 for Registrado X-tra, Registrado Clear – 50 pack

**REF 2133** Pack type 6 for V-Posil Mono Fast – 50 pack

**REF 2203** Pack type 31 for V-Posil Heavy Soft Fast, Mono Fast and Putty Fast 380 ml Cartridge – 50 pack

**REF 2202** Pack type 41 for Ionoseal, Grandio/SO Flow, Admira Fusion Flow, Calcimol LC, etc. – 100 pack

**REF 2147** Pack type 45 for Amaris Gingiva, GrandioSO Light Flow, Grandio Seal – 100 pack

**REF 2131** Pack type 47 for Calcicur – 30 pack

**REF 2141** Pack type 3 for Rebilda DC in cartridge, V-Posil Light Fast and X-Light Fast – 50 pack

**REF 2142** Pack type 4 for Rebilda DC QM syringes, Bifix QM, Grandio Core Dual Cure – 50 pack

**REF 2133** Pack type 6 for V-Posil Mono Fast – 50 pack

**REF 2203** Pack type 31 for V-Posil Heavy Soft Fast, Mono Fast and Putty Fast 380 ml Cartridge – 50 pack

**REF 2202** Pack type 41 for Ionoseal, Grandio/SO Flow, Admira Fusion Flow, Calcimol LC, etc. – 100 pack

**REF 2147** Pack type 45 for Amaris Gingiva, GrandioSO Light Flow, Grandio Seal – 100 pack

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**REF 2203** Pack type 31 for V-Posil Heavy Soft Fast, Mono Fast and Putty Fast 380 ml Cartridge – 50 pack

**REF 2202** Pack type 41 for Ionoseal, Grandio/SO Flow, Admira Fusion Flow, Calcimol LC, etc. – 100 pack

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**REF 2141** Pack type 3 for Rebilda DC in cartridge, V-Posil Light Fast and X-Light Fast – 50 pack

**REF 2142** Pack type 4 for Rebilda DC QM syringes, Bifix QM, Grandio Core Dual Cure – 50 pack

**REF 2133** Pack type 6 for V-Posil Mono Fast – 50 pack
### Mix Tips / Intraoral Tips

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>SKU</th>
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<tbody>
<tr>
<td><strong>Endo Tim</strong></td>
<td>Brushes for applying bonding agents and varnishes into the root canal – pack 50 Endo Tim to be used in the root canal – 50 pack</td>
<td>REF 2246</td>
</tr>
<tr>
<td><strong>Single Tim</strong></td>
<td>Application brushes for Futurabond U, Admira Protect and Ceramic Bond – 100 pack</td>
<td>REF 2247</td>
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<tr>
<td><strong>Easy Brush</strong></td>
<td>Application brushes for Profluorid L, Profluorid Varnish and Easy Glaze – 50 pack</td>
<td>REF 2245</td>
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<tr>
<td><strong>Polishing Discs</strong></td>
<td>Trimming discs – 10 pack for Ufi Gel SC without mandrel</td>
<td>REF 2049</td>
</tr>
<tr>
<td><strong>VisCalor® Dispenser Replacement Sleeves</strong></td>
<td>Protective sleeves for Viscalor Dispenser – 100 pack</td>
<td>REF 9145</td>
</tr>
<tr>
<td><strong>VisCalor® Dispenser Changeable Top</strong></td>
<td>Changeable tops – 2 pcs</td>
<td>REF 9144</td>
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