VOCO: INNOVATIVE SOLUTIONS

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,
### PREVENTIVE CARE

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ICONS
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 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.

- **No Parabens**
  - This product does not contain the hormone disrupting class of compounds know as parabens.

- **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

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<th>Product</th>
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<td>Desensitizer/Sealant</td>
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<td></td>
<td>Grandio Seal</td>
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**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**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
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<tbody>
<tr>
<td>REF 2003</td>
<td>12 x 40 g tube melon</td>
</tr>
<tr>
<td>REF 2004</td>
<td>12 x 40 g tube mint</td>
</tr>
<tr>
<td>REF 2005</td>
<td>12 x 40 g tube strawberry</td>
</tr>
<tr>
<td>REF 2006</td>
<td>12 x 40 g tube (4 each x melon, mint, strawberry)</td>
</tr>
<tr>
<td>REF 2007</td>
<td>3 x 40 g tube (1 each x melon, mint, strawberry)</td>
</tr>
</tbody>
</table>

**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.

---
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. Pioch, 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

---

**Presentation**

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<th>SingleDose 200 x 0.4 ml</th>
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<td>REF 1269</td>
<td>REF 1271</td>
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<td>REF 2226</td>
<td>REF 2229</td>
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<td>cherry</td>
<td>REF 2227</td>
<td>REF 2230</td>
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<tr>
<td>mint</td>
<td>REF 2228</td>
<td>REF 2231</td>
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<tr>
<td>bubble gum</td>
<td>REF 2238</td>
<td>REF 2239</td>
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<td>cola lime</td>
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**Application of Profluorid Varnish**

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”).
**DIRECT RESTORATION**

**INDIRECT RESTORATION**

**DIGITAL TECHNOLOGY**

**OTHERS**

**PREVENTIVE CARE**

**FLUORIDE 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

| REF 1590 | Pack 50 x .04 ml SingleDose, accessories |
| REF 1591 | Pack 200 x .04 ml SingleDose, accessories |
| REF 1592 | 4 g bottle, easy brushes, accessories |
| REF 2245 | Easy Brush – 50 pack |
| REF 2315 | mixing pallets – 20 pack |

### Application of Profluorid L

**Bottle**

**SingleDose**

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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

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

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

1 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 tooth²

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

Presentation
- REF 1060 Kit 5 x 2 g syringes with intraoral tips type 45, 5 ml Vococid
- REF 1061 Refill 2 x 2 g syringes, intraoral tips type 45
- REF 2147 intraoral tips type 45 – 100 pack

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

¹ US Patent No: 8,641,416 B2 ² 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”).
# DIRECT RESTORATION

<table>
<thead>
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<th>Liner/Etchant</th>
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<td><strong>NANO-ORMOCER®</strong></td>
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<td>VisCalor bulk</td>
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<td>VOCO caps warmer</td>
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<td><strong>VisCalor Dispenser/ Pediatric Restorative</strong></td>
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<td>VisCalor Dispenser</td>
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<td><strong>Curing Light</strong></td>
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<tr>
<td><strong>Glass Ionomer Restorative</strong></td>
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<td>Ionolux</td>
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<tr>
<td>IonoStar Plus</td>
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<td>IonoStar Molar</td>
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<td>GIC Mixer</td>
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<tr>
<td><strong>Glaze</strong></td>
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<tr>
<td>Final Varnish LC</td>
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<tr>
<td>Easy Glaze</td>
<td>39</td>
</tr>
</tbody>
</table>
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

Calcicur®
Ready-to-use calcium hydroxide paste

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

Calcium hydroxide paste contains Ca(OH)_2
Calcimol
Self-cured paste-to-paste calcium hydroxide
Not available in Canada!

**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

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

---

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

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*only for indirect pulp capping ¹US Patent No: 8,641,416 B2
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 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 x 0.1 ml SingleDose, accessories
- REF 1165 Pack 200 x 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*


**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 x 5 ml bottles
- REF 1518 Dual Cure Activator (DCA) bottle 2 ml
- REF 2247 Single Tim – 100 pack
- REF 2315 mixing pallets – 20 pack

**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 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
- VOCO’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

Technical Data
Filler Content: 89% by weight
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
Resistances 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 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. % analogus Watts
- Shrinkage stress: 5.16 MPa analogus 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 analogus ISO 9917
- Radiopacity: 423 %Al ISO 4049
- Water uptake: 10.35 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

Presentation
REF 2144 Intraoral tips type 44–100 pack
REF 2147 Application cannulae type 45–100 pack
GrandioSO Light Flow (1 × 4 g syringe), each:

<table>
<thead>
<tr>
<th>Shade</th>
<th>1 x 4 g syringe</th>
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<tbody>
<tr>
<td>A1</td>
<td>REF 2586</td>
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<td>A2</td>
<td>REF 2587</td>
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<tr>
<td>A3</td>
<td>REF 2588</td>
</tr>
<tr>
<td>A3.5</td>
<td>REF 2589</td>
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<tr>
<td>B1</td>
<td>REF 2590</td>
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<tr>
<td>W0</td>
<td>REF 2591</td>
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<tr>
<td>Opaque OA2</td>
<td>REF 2592</td>
</tr>
<tr>
<td>I (Incisal)</td>
<td>REF 2593</td>
</tr>
</tbody>
</table>

Technical Data
Filler content 76.0% w/w DIN 51081
Polymerization shrinkage 3.82 Vol.% analogous Watts
Modulus of elasticity 8.7 GPa ISO 4049
3-point flexural strength 151 MPa ISO 4049
Wear rate (200,000 cycles) 49 μm ACTA 3 body
Thermocycling 117 MPa ISO 4049
Compressive strength 374 MPa analogous ISO 9917
Radiopacity 230 %AI ISO 4049
Curing depth (800 mW/cm²) ≥ 2.20 mm/20 s ISO 4049
Water absorption 11 μg/mm³ ISO 4049
Water solubility < 0.1 μg/mm³ ISO 4049
Surface hardness 121 MHV University of Rostock

Treatment of an anterior tooth defect with GrandioSO Light Flow

Initial situation: Enamel fracture on tooth 8
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

For easy diagnostics use White Opaque (WO)
with a radiopacity of 500% AI

GrandioSO Flow’s WO shade’s extreme radiopacity of 500% AI provides an incredibly sharp contrast to the dental hard tissue and other restorative materials, making it extremely useful for the further physical treatment of a filling. When used as a cavity liner, it clearly marks the proximity of the pulp. It is highly useful for masking discolored areas, and the WO shade can be used for color effects in the creation of highly esthetic restorations.

Presentation
REF 2720 Syringe Kit, 5 × 2 g syringes (A1, A2, A3, A3.5, WO)
REF 2146 Intraoral tips type 41 – 100 pack
REF 9301 Caps Dispenser
Refills (2 × 2 g syringes/16 × 0.25 g caps), each:

<table>
<thead>
<tr>
<th>Shade</th>
<th>2 × 2 g syringes, intraoral tips type 41</th>
<th>16 × 0.25 g caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 2722</td>
<td>REF 2742</td>
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<tr>
<td>A2</td>
<td>REF 2723</td>
<td>REF 2743</td>
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<td>A3</td>
<td>REF 2724</td>
<td>REF 2744</td>
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<td>A3.5</td>
<td>REF 2725</td>
<td>REF 2745</td>
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<td>A4</td>
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<td>B1</td>
<td>REF 2729</td>
<td>REF 2749</td>
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<tr>
<td>B2</td>
<td>REF 2730</td>
<td>REF 2749</td>
</tr>
<tr>
<td>C2</td>
<td>REF 2732</td>
<td>REF 2749</td>
</tr>
<tr>
<td>I (Incisal)</td>
<td>REF 2733</td>
<td></td>
</tr>
<tr>
<td>Opaque OA2</td>
<td>REF 2734</td>
<td></td>
</tr>
<tr>
<td>BL (Bleach)</td>
<td>REF 2736</td>
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<tr>
<td>WO (White Opaque)</td>
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<tr>
<td>GA5</td>
<td>REF 2727</td>
<td>REF 2737</td>
</tr>
</tbody>
</table>

GrandioSO shade guide REF 2607*

*Only Above Shades are Available

Technical Data
| Filler content  | 81% (by weight) | 65% (by volume) |
| Shrinkage       | 3.19% (by volume) | analogous Watts et al. |
| Modulus of Elasticity | 10,580 MPa | ISO 4049 |
| Depth of cure | >2.51 mm/20 sec. | ISO 4049 |
| Radiopacity WO | 500 %AI | ISO 4049 |
| Radiopacity WO | 500 %AI | ISO 4049 |
| Wear rate: Flexural strength | 48 μm | 159 MPa |

GrandioSO Flow’s WO shade’s extreme radiopacity of 500% AI provides an incredibly sharp contrast to the dental hard tissue and other restorative materials, making it extremely useful for the further physical treatment of a filling. When used as a cavity liner, it clearly marks the proximity of the pulp. It is highly useful for masking discolored areas, and the WO shade can be used for color effects in the creation of highly esthetic restorations.
GrandioSO Heavy Flow

Highly viscous, light-cured, universal flowable 83% filled Nano-hybrid composite

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

REF 2680 Syringe Kit 5 × 2 g (A1, A2, A3, A3.5, WO), shade guide, accessories
REF 2148 Intraoral tips type 46 – 100 pack
REF 9301 Caps Dispenser
Refills (2 × 2 g syringes/16 × 0.25 g caps), each:

<table>
<thead>
<tr>
<th>Shade</th>
<th>2 × 2 g syringes</th>
<th>16 × 0.25 g caps</th>
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<tbody>
<tr>
<td>A1</td>
<td>REF 2684</td>
<td>REF 2704</td>
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<tr>
<td>A2</td>
<td>REF 2685</td>
<td>REF 2705</td>
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<td>REF 2686</td>
<td>REF 2706</td>
</tr>
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<td>A3.5</td>
<td>REF 2687</td>
<td>REF 2707</td>
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<td>A4</td>
<td>REF 2688</td>
<td>REF 2708</td>
</tr>
<tr>
<td>B1</td>
<td>REF 2690</td>
<td>REF 2712</td>
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<td>C2</td>
<td>REF 2692</td>
<td>REF 2693</td>
</tr>
<tr>
<td>Opaque OA2</td>
<td>REF 2694</td>
<td></td>
</tr>
<tr>
<td>I (Incisal)</td>
<td>REF 2695</td>
<td></td>
</tr>
<tr>
<td>BL (Bleach)</td>
<td>REF 2696</td>
<td></td>
</tr>
<tr>
<td>WO (White Opaque)</td>
<td>REF 2697</td>
<td></td>
</tr>
<tr>
<td>GA5</td>
<td>REF 2698</td>
<td></td>
</tr>
<tr>
<td>GrandioSO shade guide</td>
<td>REF 2607*</td>
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*Only Above Shades are Available

Technical Data

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Filler Content</td>
<td>83% (by weight)</td>
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<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>
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<tr>
<td>Depth of Cure</td>
<td>&gt;2.5 mm/20 sec. ISO 4049</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>260 %AI ISO 4049</td>
</tr>
<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>
</tr>
<tr>
<td>Flexural Strength</td>
<td>159 MPa ISO 4049</td>
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The visible difference

Stability comparison on a horizontal plane

Flowability comparison on a vertical plane
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 x 4 g syringe</th>
<th>20 x 0.25 g caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 1810</td>
<td>REF 1840</td>
</tr>
<tr>
<td>A2</td>
<td>REF 1811</td>
<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>
</tr>
<tr>
<td>A4</td>
<td>REF 1814</td>
<td>REF 1844</td>
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<tr>
<td>B1</td>
<td>REF 1824</td>
<td>REF 1854</td>
</tr>
<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>
</tr>
<tr>
<td>C2</td>
<td>REF 1817</td>
<td>REF 1847</td>
</tr>
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<td>C3</td>
<td>REF 1818</td>
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<td>D2</td>
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<td>REF 1855</td>
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<td>D3</td>
<td>REF 1819</td>
<td>REF 1849</td>
</tr>
<tr>
<td>I (Incisal)</td>
<td>REF 1820</td>
<td></td>
</tr>
<tr>
<td>Opaque OA2</td>
<td>REF 1821</td>
<td>REF 1851</td>
</tr>
<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>
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<tr>
<td>Grandio shade guide</td>
<td>REF 1899</td>
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Technical Data

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<tr>
<th>Description</th>
<th>Value</th>
<th>Source</th>
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<tbody>
<tr>
<td>Filler content</td>
<td>87% by weight</td>
<td>DIN 13922</td>
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<tr>
<td>Shrinkage</td>
<td>1.57% by vol.*</td>
<td>University of Manchester, GB</td>
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<tr>
<td>Surface hardness</td>
<td>285 MHV</td>
<td>University of Rostock, Germany</td>
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<tr>
<td>Wear rate</td>
<td>18 μm</td>
<td>3 body wear (ACTA 200,000)</td>
</tr>
<tr>
<td>Depth of cure</td>
<td>3 mm/20 sec.</td>
<td>ISO 4049</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>250 %Al</td>
<td>ISO 4049</td>
</tr>
</tbody>
</table>
**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

**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

**Presentation**

<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>01</td>
<td>REF 1933</td>
<td>REF 1953</td>
</tr>
<tr>
<td>02</td>
<td>REF 1934</td>
<td>REF 1954</td>
</tr>
<tr>
<td>03</td>
<td>REF 1935</td>
<td>REF 1955</td>
</tr>
<tr>
<td>04</td>
<td>REF 1936</td>
<td>REF 1956</td>
</tr>
<tr>
<td>05</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>
</tr>
<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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</tbody>
</table>

**Refills (2 x 1.8 g syringe):**

- HT (High Translucent) REF 1945
- HO (High Opaque) REF 1946
- Shade guide REF 1669

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

Clinical application

Initial situation on teeth 6 and 7
Dr. Jan-Erik Schulz-Walz, Hamburg, Germany

Cervical restorations with Amaris Gingiva
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
REF 2750 Syringe Kit, 5 × 3 g syringes (A1, A2, A3, A3.5, Admira Fusion x-tra), shade guide
REF 2780 Caps Kit, 75 × 0.2 g caps (15 each of A1, A2, A3, A3.5, Admira Fusion x-tra), shade guide
REF 9301 Caps Dispenser
Refills (1 × 3 g syringe/15 × 0.2 g caps), each:

<table>
<thead>
<tr>
<th>Shade</th>
<th>1 × 3 g syringe</th>
<th>15 × 0.2 g caps</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 2764</td>
<td>REF 2782</td>
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<tr>
<td>A2</td>
<td>REF 2765</td>
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</tr>
<tr>
<td>A3</td>
<td>REF 2766</td>
<td>REF 2784</td>
</tr>
<tr>
<td>A3.5</td>
<td>REF 2768</td>
<td>REF 2786</td>
</tr>
<tr>
<td>A4</td>
<td>REF 2759</td>
<td>REF 2787</td>
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<td>B1</td>
<td>REF 2762</td>
<td>REF 2790</td>
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<tr>
<td>B2</td>
<td>REF 2763</td>
<td>REF 2791</td>
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<tr>
<td>B3</td>
<td>REF 2764</td>
<td>REF 2792</td>
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<tr>
<td>C2</td>
<td>REF 2766</td>
<td>REF 2794</td>
</tr>
<tr>
<td>D3</td>
<td>REF 2768</td>
<td>REF 2796</td>
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<tr>
<td>Opaque DA1</td>
<td>REF 2770</td>
<td>REF 2798</td>
</tr>
<tr>
<td>Opaque DA2</td>
<td>REF 2771</td>
<td>REF 2799</td>
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<td>REF 2772</td>
<td>REF 2800</td>
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<td>REF 2804</td>
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<td>Mixed*</td>
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Admira Fusion Shade Guide
REF 2752

Technical Data

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<td>Shrinkage stress</td>
<td>3.71 MPa analogous Watts et al.</td>
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<tr>
<td>Filler content</td>
<td>84% (by weight)</td>
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<tr>
<td>Depth of Cure</td>
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<tr>
<td>Radiopacity</td>
<td>305 %AI</td>
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<td>Modulus of elasticity</td>
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<td>Thermal expansion coefficient α</td>
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<tr>
<td>3-Point-Flexural strength</td>
<td>132 MPa</td>
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<tr>
<td>Edge stability</td>
<td>171.9 N</td>
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<tr>
<td>Compressive strength</td>
<td>307 MPa analogous ISO 9917</td>
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<tr>
<td>Water uptake</td>
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<tr>
<td>Water solubility</td>
<td>≤ 0.1 μg / mm²</td>
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<tr>
<td>Resistance to ambient light</td>
<td>198 s</td>
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<tr>
<td>Tensile bond strength on enamel (with Futurabond M+: Self-Etch mode)</td>
<td>30.04 MPa</td>
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<tr>
<td>Tensile bond strength on dentin (with Futurabond M+: Self-Etch mode)</td>
<td>23.82 MPa</td>
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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 I-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% Al)
- 12 shades for esthetic restorations – perfectly matching the shade range of the packable version, Admira Fusion

Presentation
- REF 2816 Syringe Kit 5 × 2 g syringes (A1, A2, A3, A3.5, WO), shade guide, accessories
- REF 2146 intraoral tips type 41 – 100 pack
- Shade Guide

Shade | 2 × 2 g syringes
---|---
A1 | REF 2818
A2 | REF 2819
A3 | REF 2820
A3.5 | REF 2821
A4 | REF 2822
B1 | REF 2824
B2 | REF 2825
C2 | REF 2826
I (Incisal) | REF 2828
Opaque OA2 | REF 2829
BL (Bleach) | REF 2831
WO (White Opaque) | REF 2832
Admira Fusion Shade Guide | REF 2752*

Technical Data
- Shrinkage: 2.75% (by volume) analogous
- Shrinkage stress: 7.27 MPa analogous
- Filler content: 74% (by weight)
- Depth of Cure: 2.66 mm / 20 s
- Radiopacity: 240% Al
- Modulus of elasticity: 5,771 MPa
- Compressive strength: 281 MPa analogous
- Water uptake: 12 μg / mm³
- Water solubility: < 0.1 μg / mm³
- Resistance to ambient light: 198 s
- Water uptake: 12 μg / mm³
- Surface hardness (Micro-Vickers): 86 M HV
- Diametrical tensile strength: 66 MPa

*Only Above Shades are Available
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:

Source: Internal VOCO data 2019

ORBMCER® is a registered trademark of Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V., Munich, Germany.
Admira Fusion® x-base

Nan-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

<table>
<thead>
<tr>
<th>Technical Data</th>
<th></th>
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<tbody>
<tr>
<td>Shrinkage</td>
<td>2.5% (by vol.) analogous Watts et al.</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/mm²</td>
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<tr>
<td>Water solubility</td>
<td>&lt;0.1 μg/mm²</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 %AI) for easy X-ray identification
- Available in patented NDT® (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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filler Content</td>
<td>75% by weight</td>
</tr>
<tr>
<td>Shrinkage Stress</td>
<td>5.93 MPa</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>2.54% (by volume)</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>350 %AI</td>
</tr>
<tr>
<td>Surface Hardness</td>
<td>100 MHV</td>
</tr>
<tr>
<td>Wear (ACTA)</td>
<td>46.1 μm</td>
</tr>
<tr>
<td>Flexural Strength after TC</td>
<td>141 MPa</td>
</tr>
</tbody>
</table>

*US 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 %Al)
  - 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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filler Content</td>
<td>86% by weight</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>1.7% (by volume)</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>330 %Al</td>
</tr>
<tr>
<td>Surface Hardness</td>
<td>142 MHV</td>
</tr>
<tr>
<td>Wear (ACTA)</td>
<td>43 μm</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>145 MPa</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shrinkage</td>
<td>1.44% (by volume)</td>
</tr>
<tr>
<td>Shrinkage stress</td>
<td>4.6 MPa</td>
</tr>
<tr>
<td>Filler content</td>
<td>83% (by weight)</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>310 %Al</td>
</tr>
<tr>
<td>3-point flexural strength</td>
<td>164 MPa</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>335 MPa</td>
</tr>
<tr>
<td>Water absorption</td>
<td>11 μg/mm³*</td>
</tr>
<tr>
<td>Water solubility</td>
<td>≤ 0.1 μg/mm³</td>
</tr>
<tr>
<td>Abrasion</td>
<td>39 μm</td>
</tr>
<tr>
<td>Diametral tensile strength</td>
<td>64 MPa</td>
</tr>
<tr>
<td>Thermal expansion coefficient a</td>
<td>33-10.6 / K-1</td>
</tr>
<tr>
<td>Surface hardness</td>
<td>147 MHV</td>
</tr>
</tbody>
</table>

**Clinical Case**

- Initial situation
- Minimally invasive prepared cavity at tooth 5
- Filling the cavity with VisCalor bulk
- Restoration two months after filling

**Caps Warmer**

**Preheating device for composite caps¹**

**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

---

¹Caps 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 x 0.25 g caps in eight different colors, color guide
REF 9301 Caps Dispenser
Refill pack 25 x 0.25 g caps each:

<table>
<thead>
<tr>
<th>Shade</th>
<th>25 x 0.25 g</th>
<th>Shade</th>
<th>25 x 0.25 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Gold”</td>
<td>REF 1681</td>
<td>“Green”</td>
<td>REF 1685</td>
</tr>
<tr>
<td>“Silver”</td>
<td>REF 1682</td>
<td>“Orange”</td>
<td>REF 1686</td>
</tr>
<tr>
<td>“Blue”</td>
<td>REF 1683</td>
<td>“Lemon”</td>
<td>REF 1687</td>
</tr>
<tr>
<td>“Pink”</td>
<td>REF 1684</td>
<td>“Berry”</td>
<td>REF 1688</td>
</tr>
<tr>
<td>Shade Guide</td>
<td>REF 1689</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Technical Data
- Polymerization Shrinkage: 2% (by volume)
- Filler Rate: 77.8% (by weight)
- Transverse strength: 116 MPa (DIN 13922)
- Compressive strength: 316 MPa (ISO 4049)
- Wear: 14.6 μm (ACTA 250,000 cycles)
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>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Light intensity (output)</td>
<td>1,300 mW/cm²</td>
</tr>
<tr>
<td>Wavelength range</td>
<td>450–480 nm</td>
</tr>
<tr>
<td>Total Operation Time</td>
<td>&gt; 45 cycles of 20 sec. cures w/ fully charged battery</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>100-240 V AC 50/60 Hz</td>
</tr>
<tr>
<td>Handpiece length</td>
<td>Ø 12.6 mm x L 210 mm</td>
</tr>
<tr>
<td>Handpiece weight</td>
<td>70 g (incl. device base and light guide)</td>
</tr>
</tbody>
</table>

IS GRAVITY WEIGHING DOWN YOUR CURING LIGHT?

Celalux® 3
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 polyethylene 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**

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

### Presentation

<table>
<thead>
<tr>
<th>Reference</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 2115</td>
<td>Kit 50 application capsules (10 × A1, 30 × A2, 10 × A3)</td>
</tr>
<tr>
<td>REF 2117</td>
<td>Pack 20 application capsules A1</td>
</tr>
<tr>
<td>REF 2118</td>
<td>Pack 20 application capsules A2</td>
</tr>
<tr>
<td>REF 2119</td>
<td>Pack 20 application capsules A3</td>
</tr>
<tr>
<td>REF 2120</td>
<td>Pack 20 application capsules A3.5</td>
</tr>
<tr>
<td>REF 2121</td>
<td>Pack 20 application capsules B1</td>
</tr>
<tr>
<td>REF 2122</td>
<td>Bulk Pack 150 Application capsules A2</td>
</tr>
<tr>
<td>REF 2123</td>
<td>Bulk Pack 150 Application capsules A3</td>
</tr>
<tr>
<td>REF 2331</td>
<td>1 AC Applicator Type 1</td>
</tr>
<tr>
<td>REF 2334</td>
<td>1 AC Applicator Type 2</td>
</tr>
<tr>
<td>REF 9050</td>
<td>GIC Mixing Device</td>
</tr>
</tbody>
</table>

### Technical Data

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shear bond strength to dentin</td>
<td>8.7 MPa</td>
<td>ISO/TS 11</td>
</tr>
<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>
</tr>
<tr>
<td>Compressive strength</td>
<td>219.6 MPa</td>
<td>analogue ISO 9917-1</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>250 %Al</td>
<td>ISO 9917-2</td>
</tr>
<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

**Subsequent treatment with Ionolux**

### Non-Stick Handling


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 x A1, 30 x A2, 10 x 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
- Glass ionomer material without fluorescence
- IonoStar Plus
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**
- REF 2520 Kit 50 application capsules (10 × A1, 30 × A2, 10 × A3)
- REF 2524 Pack 20 application capsules A1
- REF 2525 Pack 20 application capsules A2
- REF 2526 Pack 20 application capsules A3
- REF 2532 Bulk Pack 150 application capsules A2
- REF 2533 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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength</td>
<td>275 MPa</td>
<td>ISO 9917-1</td>
</tr>
<tr>
<td>Radiopacity</td>
<td>250 %Al</td>
<td>ISO 9917-1</td>
</tr>
<tr>
<td>Mixing time</td>
<td>10–15 s</td>
<td>ISO 9917-1</td>
</tr>
<tr>
<td>Setting time</td>
<td>90 s</td>
<td>ISO 9917-1</td>
</tr>
<tr>
<td>Intraoral setting time</td>
<td>180 s</td>
<td>ISO 991</td>
</tr>
</tbody>
</table>

**Non-Stick Handling**

**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**
- REF 9050 GIC Mixing Device

- User-friendly
- Quiet and practically vibration-free
- Mixing times can be freely selected between 1 and 99 seconds
## Final Varnish LC

**Light-cured varnish for sealing of glass ionomer fillings**

<table>
<thead>
<tr>
<th>Indications</th>
<th>Advantages</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sealing and surface covering of glass ionomer restorations</td>
<td>• Finish temporary and permanent restorations in seconds</td>
<td>REF 1241 Pack 2 x 3 ml bottles</td>
</tr>
<tr>
<td>Protection against moisture and dehydration</td>
<td></td>
<td>REF 2315 mixing pallets – 20 pack</td>
</tr>
</tbody>
</table>

### 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!

<table>
<thead>
<tr>
<th>Indications</th>
<th>Advantages</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface sealing of glass ionomer cements, provisional crowns and bridges</td>
<td>• Finish temporary and permanent restorations in seconds</td>
<td>REF 1016 5 ml bottle, accessories</td>
</tr>
<tr>
<td>and definitive composite restorations</td>
<td>• Natural gloss and tooth-like fluorescence</td>
<td>REF 2245 easy brushes – 50 pack</td>
</tr>
<tr>
<td>Protecting glass ionomer cement surfaces against the effects of moisture</td>
<td>• Can be used on all types of direct and indirect restorations</td>
<td>REF 2315 mixing pallets – 20 pack</td>
</tr>
<tr>
<td>and dehydration immediately after placement</td>
<td>• Nano-filled for better wear resistance</td>
<td></td>
</tr>
<tr>
<td>Sealing glass ionomer cement liners/build-up restorations before taking</td>
<td>• Works with LED, PAC and halogen curing lights</td>
<td></td>
</tr>
<tr>
<td>impressions</td>
<td>• Protects against staining and discoloration</td>
<td></td>
</tr>
<tr>
<td>Sealing and protecting adhesive interfaces between restoration and tooth</td>
<td>• Increase patient satisfaction</td>
<td></td>
</tr>
<tr>
<td>structure</td>
<td>• Excellent protection of glass ionomers against moisture and dehydration</td>
<td></td>
</tr>
</tbody>
</table>

### 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

### 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
- VOCO Retraction Paste

### Bite Registration
- Registrado x-tra
- Registrado Clear

### Temporary Filling
- Clip
- Clip Flow

### Temporary Cement
- Provicol
- Provicol QM Plus
- Provicol 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
**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)
V-Posil® Light Fast · X-Light Fast
Time optimized VPS wash material

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>
</tr>
</thead>
<tbody>
<tr>
<td>REF 2573 Cartridge 2 x 50 ml, mixing tips type 7</td>
</tr>
<tr>
<td>REF 2574 Cartridge 10 x 50 ml, mixing tips type 7 – 50 pack</td>
</tr>
<tr>
<td>REF 2141 intraoral tips type 3 – 50 pack</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>V-Posil X-Light Fast</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 2575 Cartridge 2 x 50 ml, mixing tips type 7</td>
</tr>
<tr>
<td>REF 2186 mixing tips type 7 – 50 pack</td>
</tr>
<tr>
<td>REF 2141 intraoral tips type 3 – 50 pack</td>
</tr>
<tr>
<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
  - Reline 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

<table>
<thead>
<tr>
<th>V-Posil Mono Fast</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 2569 Cartridge 1 x 380 ml, mixing tips type 30</td>
</tr>
<tr>
<td>REF 2570 Cartridge 2 x 380 ml</td>
</tr>
<tr>
<td>REF 2571 Cartridge 2 x 50 ml, mixing tips type 16</td>
</tr>
<tr>
<td>REF 2572 Cartridge 10 x 50 ml</td>
</tr>
<tr>
<td>REF 2196 mixing tips type 16 – 50 pack (50 ml)</td>
</tr>
<tr>
<td>REF 2203 mixing tips type 30 – 50 pack (380 ml)</td>
</tr>
<tr>
<td>REF 2133 intraoral tips type 6 – 50 pack</td>
</tr>
<tr>
<td>REF 2158 Type 2 dispenser (50 ml cartridge)</td>
</tr>
</tbody>
</table>

---

**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

<table>
<thead>
<tr>
<th>VOCO Dynamic Dispenser</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 9140 Mixing device 110 V int. E1</td>
</tr>
<tr>
<td>REF 2203 mixing tips type 30 – 50 pack</td>
</tr>
</tbody>
</table>
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 |

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 0.25 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**

- NDT®¹ (Non-Dripping Technology)

Source: Dr. Peter Bastobe, Mainleus / Germany
**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
**Indirect Restoration**

**Temporary Cement**

**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
Attractive result with ZrO² crowns

**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
Attractive result with ZrO² crowns

**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

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

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>
</tr>
<tr>
<td>C2</td>
<td>REF 1486</td>
</tr>
<tr>
<td>REF 1492 Bulk Pack 5 × 75 g cartridges shade A2, mixing tips type 6</td>
<td></td>
</tr>
<tr>
<td>REF 1491 Bulk Pack 5 × 75 g cartridges shade A3, mixing tips type 6</td>
<td></td>
</tr>
<tr>
<td>REF 2185 mixing tips type 6 – 50 pack</td>
<td></td>
</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>
</tr>
<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
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working time</td>
<td>30–50 sec.</td>
</tr>
<tr>
<td>Intraoral setting time (ISO 4049)</td>
<td>40–70 sec.</td>
</tr>
<tr>
<td>Compressive strength (ISO 9917)</td>
<td>215 MPa</td>
</tr>
<tr>
<td>3-Point flexural strength (ISO 4049)</td>
<td>92.7 MPa</td>
</tr>
<tr>
<td>Diametral tensile strength</td>
<td>30 MPa</td>
</tr>
<tr>
<td>Modulus of elasticity analogous (ISO 4049)</td>
<td>2,500 MPa</td>
</tr>
<tr>
<td>Maximum intrapulpal temperature</td>
<td>&lt; 40.5 °C – University of Münster</td>
</tr>
</tbody>
</table>
Indications
Fabrication of temporary crowns, bridges, inlays, onlays, partial crowns, veneers and temporary posts
Fabrication of long-term temporaries
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® matching shades
Structur® Premium
Highly durable, fast-setting temporary BIS-Acrylic crown and bridge material with added flexural strength

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></td>
<td>REF 1719 Bulk Pack 5 x 75 g cartridges, shade A3, mixing tips type 6</td>
</tr>
<tr>
<td></td>
<td>REF 2185 mixing tips type 6 (Cartridge) – 50 pack</td>
</tr>
<tr>
<td></td>
<td>REF 2158 Type 2 dispenser</td>
</tr>
</tbody>
</table>

Technical Data

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</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>
</tr>
<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>

Initial situation

Structur Premium temporary

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% AI 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 2139 intraoral tips type 1 (endo tip) – 50 pack

Technical Data

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

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

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

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

Presentation
Rebilda Post GT - System
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

Refills Post GT:

<table>
<thead>
<tr>
<th>Refills Post GT</th>
<th>Description</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>
Quick Up®
Tissue colored implant pick-up system with new Quick Up method

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 tip – 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

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

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 %Al
- pH (at application) 2.5 (acidic)
- pH (after curing) neutral

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
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

| REF 1217 Kit 10 g syringe universal, Futurabond DC 4 ml liquid 1, 4 ml liquid 2, 5 ml Ceramic Bond, accessories |
| REF 1218 Refill 10 g syringe universal |
| REF 1219 Refill 10 g syringe transparent |
| REF 1759 Refill 10 g syringe white-opaque |
| REF 1106 Refill 5 ml Ceramic Bond |
| REF 1163 Pack Futurabond DC 4 ml liquid 1, 4 ml liquid 2 |
| REF 2191 mixing tips type 11 – 50 pack |
| REF 2142 intraoral tips type 4 – 50 pack |
| REF 2315 mixing pallets – 20 pack |

Technical Data

| Film thickness | 5–10 µm |
| Working time | 2.5–3.5 min |
| Setting time | 3 min after inserting the restoration |
| Depth of cure | 4 mm/10 s |
| Water solubility | <0.3 µg/mm³ |
| Compressive strength | 297 MPa |
| Flexural strength | 138 (LC) / 113 (CC) MPa |

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

**Technical Data**
- Working time (ISO 9917-2): 2 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

---

**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 VOCO 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

---

**Others**

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

**Presentation**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 1727</td>
<td>Pack 8.5 g QuickMix syringe</td>
</tr>
<tr>
<td>REF 1728</td>
<td>Set 3 x 8.5 g QuickMix syringe</td>
</tr>
<tr>
<td>REF 2189</td>
<td>Mixing tips type 10 – 50 pack</td>
</tr>
</tbody>
</table>

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<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>
</tr>
<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>

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

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 1205</td>
<td>Kit 2 × 4 g adhesive syringes, 6 ml primer bottle, accessories</td>
</tr>
<tr>
<td>REF 1206</td>
<td>SE Kit 2 × 4 g adhesive syringe, 40 primer SingleDose, accessories</td>
</tr>
<tr>
<td>REF 1207</td>
<td>Refill 6 ml primer bottle</td>
</tr>
<tr>
<td>REF 1208</td>
<td>Refill 2 × 4 g adhesive syringe</td>
</tr>
<tr>
<td>REF 1209</td>
<td>Refill 50 primer SE SingleDose, accessories</td>
</tr>
<tr>
<td>REF 2247</td>
<td>Single Tim application brushes – 100 pack</td>
</tr>
<tr>
<td>REF 2315</td>
<td>Mixing pallets – 20 pack</td>
</tr>
</tbody>
</table>

Source: Dr. Felipe Moura / Brazil

BrackFix Application

Etching of enamel surface
Application of BrackFix Primer
Simple application of BrackFix Adhesive to bracket
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
### 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
- **REF 2041 Kit** 50 ml cartridge Ufi Gel SC, 10 ml adhesive, each 10 ml glazing base/catalyst, 10 mixing tips type 8, accessories
- **REF 2040 Refill** 50 ml cartridge, 10 mixing tips type 8
- **REF 2029 Refill** 10 ml Ufi Gel SC adhesive
- **REF 2047 Refill** each 10 ml glazing base/catalyst
- **REF 2187 mixing tips** type 8 – 50 pack
- **Trimming disk:**
  - **REF 2049 trimming discs** – 10 pack

---

**SC**

**auto mix**
**Indications**

Hard, permanent chairside relining
Direct and indirect relining
Total or partial relining
External relining (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**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 2215</td>
<td>80 g cartridge, 10 ml adhesive, mixing tips type 8</td>
</tr>
<tr>
<td>REF 2218</td>
<td>Intro Kit 80 g cartridge, 10 ml adhesive, dispenser type 2, mixing tips type 8</td>
</tr>
<tr>
<td>REF 2216</td>
<td>Refill 80 g cartridge, mixing tips type 8</td>
</tr>
<tr>
<td>REF 2217</td>
<td>10 ml adhesive bottle</td>
</tr>
<tr>
<td>REF 2187</td>
<td>mixing tips type 8 – 50 pack</td>
</tr>
<tr>
<td>REF 2315</td>
<td>mixing pallets – 20 pack</td>
</tr>
</tbody>
</table>

**As simple as an impression**

1. Apply adhesive
2. Apply Ufi Gel hard C
3. Functional movements
4. 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>Working time</th>
<th>Setting time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fit Test C &amp; B</td>
<td>max. 1 min 45 sec.</td>
<td>45 sec. – 1 min 15 secs.</td>
</tr>
<tr>
<td>Fit Checker ™</td>
<td>~ 1 min 15 s</td>
<td>~ 1 min 15 s</td>
</tr>
<tr>
<td>Fit Checker II ™</td>
<td>~ 1 min 15 s</td>
<td>~ 1 min 15 s</td>
</tr>
</tbody>
</table>

**Tear resistance**

Source: VOCO GmbH in-house test analogue ASTM D-624-98

VOCO is not the holder of the mentioned trade marks

**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
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- Grandio disc 69
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- CediTEC® DB Denture Base 71
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- V-Print splint 72
- V-Print SG 73
- V-Print Try-In 73
- V-Print cast 74
- V-Print tray 74
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DIGITAL WORKFLOW

ADDITIVE VS. SUBTRACTIVE

DIGITAL SCAN

C.A.M. SOFTWARE

C.A.D. SOFTWARE

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

1 Computer Aided Manufacturing
2 Computer Aided Design

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

66
Grandio blocs Universal
Resin Nano-Ceramic Hybrid CAD/CAM Block

Indications
Crows, 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>5 x Gr. 14L Low translucent (LT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 LT</td>
<td>REF 6003</td>
<td>A1 LT</td>
</tr>
<tr>
<td>A2 LT</td>
<td>REF 6004</td>
<td>A2 LT</td>
</tr>
<tr>
<td>A3 LT</td>
<td>REF 6005</td>
<td>A3 LT</td>
</tr>
<tr>
<td>A3.5 LT</td>
<td>REF 6006</td>
<td>A3.5 LT</td>
</tr>
<tr>
<td>B1 LT</td>
<td>REF 6007</td>
<td>B1 LT</td>
</tr>
<tr>
<td>C2 LT</td>
<td>REF 6008</td>
<td>C2 LT</td>
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<tr>
<td>BL LT</td>
<td>REF 6009</td>
<td>BL LT</td>
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</table>

<table>
<thead>
<tr>
<th>Shade</th>
<th>5 x Gr. 12 High translucent (HT)</th>
<th>5 x Gr. 14L High translucent (HT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 HT</td>
<td>REF 6012</td>
<td>A1 HT</td>
</tr>
<tr>
<td>A2 HT</td>
<td>REF 6013</td>
<td>A2 HT</td>
</tr>
<tr>
<td>A3 HT</td>
<td>REF 6014</td>
<td>A3 HT</td>
</tr>
<tr>
<td>A3.5 HT</td>
<td>REF 6015</td>
<td>A3.5 HT</td>
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</table>

Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength</td>
<td>530 MPa analog ISO 9917</td>
</tr>
<tr>
<td>Tensile 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 × 10⁻⁶ 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 μg/mm² analog ISO 4049</td>
</tr>
<tr>
<td>Water solubility</td>
<td>&lt; 0.1 μg/mm³ 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 μm</td>
</tr>
<tr>
<td>Two-body-wear (antagonist)</td>
<td>98.1 μm</td>
</tr>
</tbody>
</table>

Source: Dr. Felipe Moura, Brazil

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

<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 6153</td>
<td>A1 LT</td>
<td>REF 6118</td>
</tr>
<tr>
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<td>REF 6154</td>
<td>A2 LT</td>
<td>REF 6119</td>
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<tr>
<td>A3 LT</td>
<td>REF 6155</td>
<td>A3 LT</td>
<td>REF 6120</td>
</tr>
<tr>
<td>A3.5 LT</td>
<td>REF 6156</td>
<td>A3.5 LT</td>
<td>REF 6121</td>
</tr>
<tr>
<td>B1 LT</td>
<td>REF 6157</td>
<td>B1 LT</td>
<td>REF 6122</td>
</tr>
<tr>
<td>C2 LT</td>
<td>REF 6158</td>
<td>C2 LT</td>
<td>REF 6123</td>
</tr>
<tr>
<td>BL LT</td>
<td>REF 6159</td>
<td>BL LT</td>
<td>REF 6124</td>
</tr>
</tbody>
</table>

**Gr. 12**

10.5 mm
12.5 mm
16 mm
10.4 mm
12.4 mm

**Gr. 14L**

14.8 mm
18 mm
14.5 mm
14.5 mm

**Technical Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</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>16.0·10⁻⁶ 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 μg/mm³ analog ISO 4049</td>
</tr>
<tr>
<td>Water solubility</td>
<td>&lt; 0.1 μg/mm³ 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 μm</td>
</tr>
<tr>
<td>Two-body-wear (antagonist)</td>
<td>98.1 μm</td>
</tr>
</tbody>
</table>

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

<table>
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<tr>
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</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Shade</th>
<th>Low translucent (LT) ø 98.4 mm, 15 mm</th>
<th>Shade</th>
<th>High translucent (HT) ø 98.4 mm, 15 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 LT</td>
<td>REF 6050</td>
<td>A1 MT</td>
<td>REF 6057</td>
</tr>
<tr>
<td>A2 LT</td>
<td>REF 6051</td>
<td>A2 HT</td>
<td>REF 6058</td>
</tr>
<tr>
<td>A3 LT</td>
<td>REF 6052</td>
<td>A3 HT</td>
<td>REF 6059</td>
</tr>
<tr>
<td>A3.5 LT</td>
<td>REF 6053</td>
<td>A3.5 HT</td>
<td>REF 6060</td>
</tr>
<tr>
<td>B1 LT</td>
<td>REF 6054</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C2 LT</td>
<td>REF 6055</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BL LT</td>
<td>REF 6056</td>
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</table>

<table>
<thead>
<tr>
<th>Shade</th>
<th>MultiColor (MC) ø 98.4 mm, 15 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 MS</td>
<td>REF 6216</td>
</tr>
<tr>
<td>A2 MS</td>
<td>REF 6217</td>
</tr>
<tr>
<td>A3 MS</td>
<td>REF 6218</td>
</tr>
<tr>
<td>A3.5 MS</td>
<td>REF 6219</td>
</tr>
<tr>
<td>B1 MS</td>
<td>REF 6220</td>
</tr>
<tr>
<td>C2 MS</td>
<td>REF 6221</td>
</tr>
</tbody>
</table>

3 shades CAD / CAM

39 mm 15.5 mm 19 mm
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

<table>
<thead>
<tr>
<th>Shade</th>
<th>Disc ø 98 mm, 20 mm</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>REF 6085</td>
</tr>
<tr>
<td>A2</td>
<td>REF 6086</td>
</tr>
<tr>
<td>A3</td>
<td>REF 6086</td>
</tr>
<tr>
<td>BL</td>
<td>REF 6087</td>
</tr>
</tbody>
</table>
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>
</tr>
<tr>
<td></td>
<td>dark-pink</td>
<td>REF 6196</td>
</tr>
<tr>
<td></td>
<td>orange-pink</td>
<td>REF 6197</td>
</tr>
</tbody>
</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></td>
<td>REF 6048 Bottle 1,000 g pink</td>
</tr>
</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](http://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](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**
REF 6043 Bottle 1,000 g clear

V-Print® Try-In
Light-curing resin for the generative production of try-ins for prosthetics

**Indications**
- Try-ins for total and partial prosthetics
- Transfer and grinding templates
- Correction impressions and occlusal impressions

**Advantages**
- Verification and possibility to assess the fit, occlusion, functionality, phonation and esthetics before the production of prosthetics
- Biocompatible
- FDA cleared class I medical device
- Compatible with multiple printers from Asiga, Dental Wings, Rapid Shape, Straumann, and VOCO.
- No sedimentation – therefore no shaking or “rolling” prior to use

**Presentation**
REF 6049 Bottle 1,000 g beige

For a complete list go to www.voco.dental/3dprintingpartners
V-Print® cast
Light-curing resin for the generative production of burn-out objects for casting and pressing processes

**Indications**
Production of objects which can be burned out without leaving any residues for casting processes and press ceramics

**Advantages**
- Reproducible – simple duplication prior to casting
- Quick finishing process – precisely printed objects allow for high quality of reproduction
- High form and edge stability – reliable checking of occlusion and lateral movements
- Fast and instrument-saving finish already at green state
- High compatibility – can be used with commercially available phosphate-bonded investment materials

**Presentation**
- REF 6045 Bottle 1,000 g blue

- Restorations free of impurities – V-Print cast burns without residue
- 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® tray
Light-curing resin for the generative manufacture of individual trays, base plates and occlusal registrations using CAD / CAM technology

**Indications**
Individual impression and function trays
Bases for bite templates and wax assemblies for full dentures
Occlusal registrations

**Advantages**
- 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

**Presentation**
- 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**

**Indications**

3D printing of crown and bridge models and ortho models

**Advantages**

- 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.

**Presentation**

REF 6042 Bottle 1,000 g beige

**CAD / CAM**

- 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

**CAD / CAM**

- 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 × 120 × 50 mm / 4.72 × 4.72 × 1.97 in
- Rated voltage: 100, 115, 230 volt AC, adjustable by switch
- Power input: 250 watt
- Spectral distribution: 280–700 nm
- Digital timer: adjustable from 1 to 9,999 flashes
- Dimensions: 310 × 310 × 140 mm / 12.2 × 12.2 × 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
- Tips, Brushes, Polishing Disc, etc. 81
Traypurol tabs
Activated tabs for cleaning impression trays and instruments

Advantages
• Quickly removes alginites 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
Mixing Pallet

Pele Tim

Dispenser

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**Mixing Pallet**

**Presentation**

REF 2315 Mixing Pallets – 20 pack

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**Pele Tim**

Available shapes and sizes

Not available in Canada!

Special foam pellets for applying medical products in liquid or paste form without exerting any pressure. Suitable for painting infected alveoli and use as an endodrain

**Presentation**

REF 2250 No. 0, mini, ø 3 mm, approx. 3,000 pellets
REF 2252 No. 1, small, ø 4 mm, approx. 3,000 pellets
REF 2253 No. 2, medium, ø 5 mm, approx. 1,000 pellets
REF 2254 No. 3, large, ø 8 mm, approx. 500 pellets
REF 2255 No. 4, V-shaped, 6 x 8 mm, approx. 500 pellets

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**Dispenser**

Low force composite dispenser

VisCalor Dispenser: Preheating dispenser for VisCalor/VisCalor bulk, and all other VOCO composites packaged in a capsule

**Presentation**

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)
REF 2259 type 3 for Rebilda DC (DS25 1:1)

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**AC Applicator**

**Type 1:** Forceps-type applicator to directly apply the contents of VOCO application capsules (AC) into the cavity

**Type 2:** Ergonomically designed applicator to dispense the contents of the VOCO application capsules (AC) directly into the cavity

**Presentation**

REF 2331 1 AC Applicator Type 1
REF 2334 1 AC Applicator Type 2

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**AC Activator**

Device to activate VOCO application capsules (AC)

**Presentation**

REF 9300 1 AC Activator

---

**Caps Gun**

Low force composite dispenser

VisCalor Dispenser: Preheating dispenser for VisCalor/VisCalor bulk, and all other VOCO composites packaged in a capsule

**Presentation**

REF 9301 Caps Dispenser compatible with all VOCO composite, ORMOCER, nano-ORMOCER, provisional composite and compomer capsules and VOCO Retraction Paste
REF 9143 VisCalor Dispenser – Preheating device
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/50 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 2131 pack type 47 for Calricur – 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 2134 pack type 42 for Vococid – 30 Pack
Endo Tim

REF 2246: Brushes for applying bonding agents and varnishes into the root canal – pack 50 Endo Tim to be used in the root canal – 50 pack

Single Tim

REF 2247 Application brushes for Futurabond U, Admira Protect and Ceramic Bond – 100 pack

Easy Brush

REF 2245 Application brushes for Profluorid L, Profluorid Varnish and Easy Glaze – 50 pack

Polishing Discs

REF 2049: trimming discs – 10 pack for Ufi Gel SC without mandrel

VisCalor® Dispenser Replacement Sleeves

REF 9145 Protective sleeves for Viscalor Dispenser – 100 pack

VisCalor® Dispenser Changeable Top

REF 9144 Changeable tops – 2 pcs