A NEW GENERATION OF GLASS Ionomers:

IONOSTAR® MOLAR
IONOSTAR® PLUS
IONOLUX®
MERON
MERON PLUS
MERON PLUS QM

Glass Ionomer
Restoratives & Cements

NON-STICKY, EASY TO USE, HIGH FLUORIDE RELEASE
New VOCO Glass Ionomers

NON-STICKY – PACKABLE – HIGH FLUORIDE RELEASE – WEAR RESISTANT –
NEW APPLICATION CAPSULE

As a global leader in the manufacturing of dental restorative materials, VOCO has researched and manufactured Glass Ionomers for more than 30 years. Over that time, VOCO has become one of the leading glass ionomer brands in many markets throughout the world. With the launch of our newest generation, we are proud to introduce VOCO Glass Ionomers and their unique set of physical properties to the North American market.

VOCO Glass Ionomers are different than other brands in that they utilize glass developed to our products’ specific requirements, glass that allows for higher translucency and therefore better esthetics. Additionally, this glass technology gives our materials a higher fluoride release and better physical properties. All of VOCO’s glass ionomers utilize only a very pure form of poly-acrylic acid that achieves a higher bond strength to tooth structure and makes the use of an additional dentin conditioner obsolete.

General glass ionomer feedback from the dental market indicated that there was a need for more composite-like handling without the “sticky” phase. VOCO’s new glass ionomer restoratives provide a solution to this clinical problem as they are non-sticky and can be shaped with an instrument immediately after placement, allowing for a more composite-like handling.

VOCO’s new direct activation application capsule eliminates the need for an extra activation device. This new direct activation capsule fits in virtually all other branded dispensers.

VOCO offers a variety of glass ionomers in order to satisfy the needs of every clinician and indication

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>IonoStar Plus</th>
<th>IonoStar Molar</th>
<th>Ionolux</th>
<th>Meron Plus AC</th>
<th>Meron AC</th>
<th>Meron Plus QM</th>
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<tbody>
<tr>
<td>Fast-set GI Restorative</td>
<td>GI Restorative</td>
<td>RMGI² Restorative</td>
<td>RMGI² Luting Cement</td>
<td>GI Luting Cement</td>
<td>Paste-to-paste RMGI² Cement</td>
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<td>N/A</td>
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</table>

Temporary restorations
- Restorations of deciduous teeth
- Cavity liners
- Core build-up
- Class V cervical restorations
- Class III anterior restorations
- Use on root caries
- Small Class I posterior restorations
- Large class I + II semipermanent posterior restorations
- Extended fissure sealing

Cementation on / of
- Core build-ups made of dental hard tissue, amalgam, composite and glass ionomers
- Crowns and bridges all-ceramic made of lithium disilicate, zirconium oxide or aluminium oxide ceramics
- Inlays and onlays made from precious metal and non-precious metal
- Root posts Metallic
- Orthodontic bands

¹ non occlusion-bearing class I cavities
² resin modified glass ionomer
VOCO’s New Direct Activation Capsule

SIMPLIFIED AND EASY TO USE FOR BETTER RESULTS

Many benefits are connected to the use of capsules in restorative treatment. With glass ionomer materials, these include:

- GI components are contained in optimum proportions and are thoroughly mixed
- Air inclusions (air bubbles) are minimized
- Mixing errors that negatively affect the products’ physical properties, impairing clinical success are reduced
- Fits virtually all other branded glass ionomer applicators/dispensers

**Extremely simple application without the need for an activator**

An application capsule comprises two components. The first is the capsule body, which contains the powder. The second is the capsule plunger of contrasting color, which contains the liquid. The capsule can be activated by simply pressing it down on a hard surface (e.g., table) using your hand. The colored liquid plunger is pushed into the powder chamber, thus bringing the powder and liquid together.

The capsule is then mixed in a capsule mixing device at a (mixing) frequency of 4,000 to 4,500 oscillations per minute.

**Opening the capsule**

After successfully mixing, the capsule is opened by raising the outlet. In doing so, it is important that the application cannula is raised until it meets resistance so that the capsule is opened correctly and the material easily passes through the cannula. The capsule can now be inserted into the applicator. If the cannula needs to be pointed in a certain direction within the applicator, be sure to rotate the entire capsule to achieve the desired positioning of the cannula.

The VOCO Glass Ionomer materials have been formulated so that they can be applied immediately after mixing without any delay.
The search has been ongoing for a glass ionomer restorative material that is not only easy to apply, but also offers other beneficial ease-of-use features, such as the ability to be condensed immediately after application. Today the search is over as VOCO is proud to introduce IonoStar Molar, the glass ionomer restorative with ideal non-stick handling and much more. IonoStar Molar is non-sticky, immediately packable after application and allows for an adjustable consistency by varying the mixing duration of the high-frequency mixer. This provides a solution for practitioners that need flexibility in regards to consistency (softer or firmer) to accommodate the clinical demand. Below are other benefits IonoStar Molar offers.

- High compressive strength and abrasion resistance
- Adjustable consistency based on duration of trituration.  
  - 15 s = firm
  - 10 s = softer
- Does not stick to the instrument
- Difficult-to-access areas are reached more easily
- Can be modeled immediately after insertion and remains stable
- Perfect marginal adaptation during placement
Beyond handling and controlled consistency are IonoStar Molar’s material properties, represented by its high compressive strength and abrasion resistance, as well as VOCO’s proven Glass Technology, which has been firmly established for many years in VOCO’s trusted glass ionomers.

The fluoride released by IonoStar Molar effectively prevents secondary caries.

The compressive strength of glass ionomers increases over the course of the retention time as the material continues to mature and becomes firmer in the process.

NON-STICK HANDLING

IonoStar Molar incorporates VOCO’s ideal glass ionomer handling, providing a non-stick experience when condensing the material. This reduces headaches and saves time for both the practitioner and the patient.
IONOSTAR MOLAR

**Indications**
- Restorations of non occlusion-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 (permanent)
- 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 application capsule 50 pcs. (10 × A1, 30 × A2, 10 × A3)
- REF 2522  Intro Kit application capsule 150 pcs. A2, AC Applicator type 1
- REF 2523  Intro Kit application capsule 150 pcs. A3, AC Applicator type 1
- REF 2524  Application capsule 20 pcs. A1
- REF 2525  Application capsule 20 pcs. A2
- REF 2526  Application capsule 20 pcs. A3
- REF 2532  Bulk Pack: Application capsule 150 pcs. A2
- REF 2533  Bulk Pack: Application capsule 150 pcs. A3
IonoStar® Plus

FAST-SETTING IMMEDIATELY PACKABLE GLASS IONOMER RESTORATIVE

IonoStar Plus is a fast-set glass ionomer restorative material with numerous special features. Its advantages begin when dispensed from VOCO’s new easy-to-use direct activation capsule, from which initial wetting characteristics result in optimal marginal adaptation. IonoStar Plus then becomes immediately packable without sticking due to a change in its viscosity within seconds after placement. These formulized changes provide the ideal viscosity at each stage of application.

IonoStar Plus’ fast-set of just two minutes allows work to continue immediately after condensing and shaping. This advantage shows its value particularly well when treating patients with low compliance such as children.

The diagram shows the curing behavior of the tested materials, measured by rheometer at 98.6 °F mouth temperature. Thanks to its initial, low-viscosity and consistency, IonoStar Plus adheres perfectly to the cavity walls. It then sets rapidly, resulting in only a short wait before the finishing process can begin.

ENHANCED PHYSICAL PROPERTIES TO SUPPORT LONG-LASTING RESTORATIONS

High Compressive Strength

The bar chart compares the compressive strength of IonoStar Plus, IonoStar Molar, Equia Fil, Fuji IX GP, Ketac Molar Aplicap, Ketac Fil Plus Aplicap, Riva Self Cure, Riva Self Cure HV, and ChemFil Rock after 24 hours and 7 days.

Source: Internal measurement

Ketac Molar, Ketac Fil Plus, Fuji IX GP, Equia Fil, Riva Self Cure, and ChemFil Rock are not registered trademarks of VOCO GmbH.
IonoStar Plus is the first glass ionomer material to possess the fluorescence of a natural tooth, perfecting the naturally esthetic appearance. This fluorescence makes the material ideally suitable for anterior restorations, which have these same esthetic requirements.

HIGH FLUORIDE RELEASE

In March 2016, Tufts University's Dental School tested the fluoride release of the top glass ionomer restoratives within the US market. As the chart shows, VOCO's IonoStar Plus was clearly superior in this study. IonoStar Plus had approximately 33% higher fluoride release than the next closest glass ionomer material.

This is significant as one of the top reasons practitioners turn to glass ionomer restoratives is for that fluoride release and the benefits it offers the patient and restoration over time.

CLINICAL CASE

Defects on teeth 12 and 13
Preparation
Application of IonoStar Plus
Packable viscosity

Working the restoration
Finishing
Polishing
Result

Source: Dr. Walter Denner, Fulda / Germany
Indications
Restorations of non occlusion-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 (permanent)
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 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 application capsule 50 pcs. (10 x A1, 30 x A2, 10 x A3)
REF 2548  Application capsule 20 pcs. A1
REF 2543  Application capsule 20 pcs. A2
REF 2544  Application capsule 20 pcs. A3
REF 2545  Application capsule 20 pcs. A3.5
REF 2546  Bulk Pack: Application capsule 150 pcs. A2
REF 2547  Bulk Pack: Application capsule 150 pcs. A3
Ionolux®

LIGHT-CURED GLASS Ionomer Restorative With Composite-Like Esthetics

Ionolux is a light-cured resin modified glass ionomer restorative characterized by a broad range of indications, an enhanced level of esthetics, improved handling to reduce headaches during placement, and outstanding physical properties.

**Light-cured AND immediately packable**

Ionolux is a light-cured glass ionomer material that allows practitioners to begin condensing and shaping the material immediately after dispensing/placing the glass ionomer in the restoration. This unique feature allows practitioners to decrease their procedure time and increase the procedure's ROI. When combined with Ionolux’s ability to be light-cured, these features provide more control for the dentist while still delivering the benefits of a fluoride-releasing glass ionomer restoration.

**Composite-like esthetics**

Ionolux has enhanced esthetics that allow practitioners to offer a great fluoride-releasing solution to their patients without sacrificing the esthetics of the restoration. This allows the practitioner to provide an overall higher quality of care to both his/her general patient population as well as the specific demographics within that patient population that need it most (pediatric & geriatric).

### Clinical cases

<table>
<thead>
<tr>
<th>Case 1</th>
<th>Case 2</th>
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</thead>
<tbody>
<tr>
<td><img src="image1" alt="Tooth 20 with cervical defect" /></td>
<td><img src="image2" alt="Teeth 3, 4 after excavation" /></td>
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<tr>
<td><img src="image3" alt="Tooth 20 immediately after treatment" /></td>
<td><img src="image4" alt="Subsequent treatment with Ionolux" /></td>
</tr>
</tbody>
</table>

**Case 1**
Source: Dr. Isma Goltz, Bremen / Germany

**Case 2**
Source: Prof. Hervé Tassery, PU-PH, Faculty of Odontology, University of Marseille / France
Ionolux allows for less steps and decreased procedural time as no conditioning is necessary when placing it in the restoration.

Pediatric & Geriatric dentistry
Ionolux caters to those who need treatments that limit the necessary steps to the absolute minimum, such as the pediatric and the geriatric populations. Ionolux helps keep the relative “stress” involved with necessary procedures to a manageable level for both patients and practitioners. No conditioning is required, setting time is minimized with the light-cure, and as a resin modified glass ionomer, no adhesive step is required.

Strong physical properties
The physical properties of any material will be the determining factor as to the results and benefits it can provide both the practitioner and their patients. Ionolux offers improved physical properties compared to the market-relevant glass ionomers currently available, as seen below in compressive strength after thermo-cycling and water solubility (two key attributes within the category of resin modified glass ionomers). Ionolux provides results that reflect improved benefits to both the practitioner and the patient.

Source: VOCO in-house measurement 2015

Fuji® II LC, Photac® Fil Quick, Riva® Light Cure, and Riva® Light Cure HV are not registered trademarks of VOCO GmbH.
**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**

- REF 2115  Kit application capsule 50 pcs.  
  (10 × A1, 30 × A2, 10 × A3)
- REF 2117  Application capsule 20 pcs. A1
- REF 2118  Application capsule 20 pcs. A2
- REF 2119  Application capsule 20 pcs. A3
- REF 2120  Application capsule 20 pcs. A3.5
- REF 2121  Application capsule 20 pcs. B1
- REF 2122  Bulk Pack: Application capsule 150 pcs. A2
- REF 2123  Bulk Pack: Application capsule 150 pcs. A3
Meron Plus (AC)

OPTIMAL ADHESION TO ZIRCONIA WITH A LOW FILM THICKNESS

Meron Plus, the resin modified glass ionomer (RMGI) cement, combines the advantages of tried and tested glass ionomer and composite cement technologies. Thanks to its excellent physical properties, the RMGI cement can be used for permanent cementation of all crowns, bridges, inlays and onlays made of metal, veneer ceramic and all-ceramics. Meron Plus is ideally suited for cementing high-strength zirconium oxide ceramics. Additionally, Meron Plus is now available in VOCO’s new and easy-to-use application capsule that eliminates the need for an activator.

A study conducted by the University of Mainz in Germany measured the pull-off strength of different cementation materials (glass ionomer cements, resin modified glass ionomer cements and composites) following the cementation of zirconium dioxide crowns. While VOCO’s pure glass ionomer cement, Meron delivered excellent values, it was Meron Plus AC that achieved the best values out of all of the materials across all the various cement categories included in the study. Meron Plus AC is ideal for the cementation, or luting, of high-strength ceramic crowns.

Meron Plus is unique among RMGI cements as it does not require the additional step of placing a conditioner on the surface of the prepped tooth, yet it delivers high RMGI cement adhesion values – a benefit that saves both the practitioner and patient, time and money. Additionally, the added adhesion values allow its use in cases of low retention (e.g., short, tapered cores) as well as the cementation of orthodontic bands and root posts.

Meron Plus’ low film thickness at 11 µm provides yet another benefit, making it easier to place restorations with accuracy and precision. Initially thixotropic before becoming more of a viscous consistency, Meron Plus avoids unwanted run-off while maintaining a long elastic phase that makes the removal of any excess material remarkably simple. Yet another “plus” is the low solubility of the cement.

![Graph](source)

### Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
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<tr>
<td>Film thickness</td>
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<tr>
<td>Radiopacity</td>
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<td>Usable cement</td>
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<tr>
<td>Setting time</td>
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Ketac Cem, Multilink Sprint, Maxcem, RelyX Unicem, Fuji PLUS, and Riva Luting Plus are not registered trademarks of VOCO GmbH.
Meron Plus (AC)

RESIN MODIFIED GLASS IONOMER LUTING CEMENT

Advantages
- High adhesion values when compared with conventional glass ionomer cements
- Precise marginal fit
- Thixotropic: Very good wetting behavior without unwanted run-off
- Low film thickness
- Moisture and acid resistant
- Simple removal of excess material thanks to long elastic phase
- Self-adhesive: secure and quick bonding
- Also suitable for high-strength zirconium dioxide ceramics
- Continuous release of fluoride

Presentation
Meron Plus
REF 1731  Powder 15 g
REF 1732  Liquid 10 ml

Meron Plus AC
REF 1736  Application capsule 50 pcs.
REF 1737  Application capsule 150 pcs.
REF 2331  Applicator – AC type 1

Meron (AC)

PROVEN GLASS IONOMER LUTING CEMENT

Meron, a glass ionomer cement with many benefits, has long been a leader within its category at the global level, with millions of restorations placed in the last year alone. Meron flows and provides optimal wettablity when initially dispensed within the restoration, but then firms and stabilizes during seating of the restoration within the oral cavity. With a film thickness of just 15 μm, Meron enables a precise fit and avoids unnecessary occlusal adjustments. Additionally, Meron provides bond strengths (Figure 1) more than twice that of other glass ionomer cements. With its accelerated and significantly higher fluoride release combined with its enhanced translucency, Meron provides valuable benefits to both the practitioner and the patient.

Figure 1: Adhesion, Shear Bond Strength

Source: Internal measurement

Riva Luting, Ketac Cem and Fuji I are not registered trademarks of VOCO GmbH.
Meron (AC)

GLASS Ionomer Luting Cement

Advantages

- Excellent flow properties for enhanced wetting behavior
- Low film-thickness that saves occlusal adjustment time
- High translucency for esthetic results with ceramic
- Easy excess removal to saves time
- High fluoride release minimizes secondary caries
- High bond strength for higher success rates
- More available glass ionomer material per capsule so that one capsule is enough for larger restorations

Presentation

REF 1242 Application capsules 50 pcs.
REF 1243 Application capsule 150 pcs.
REF 1086 Set powder / liquid (35 g / 15 ml)
REF 1090 Set mini powder / liquid (15 g / 7 ml)

The Glass Ionomer Mixer offers a modern design, is quiet and virtually vibration-free. Generating 4,600 rpm, it creates a particularly homogeneous mixture of powder and liquid. Simple and straightforward, the GI Mixer has an adjustable mixing time of 0-99 secs, with a user-friendly capsule holder for headache-free insertion and removal.

The AC Applicator type 1 is an application forceps for inserting the contents of a VOCO application capsule directly into the cavity.

The AC Applicator type 2 is a low force, ergonomically designed dispenser for administering the contents of a VOCO application capsule (AC) directly into the cavity.

Both devices are made to VOCO high quality standards and are extremely easy to operate.

Presentation

REF 2331 Applicator – AC type 1
REF 2334 Applicator – AC type 2
REF 9050 GI Mixer - 1 pc.

Technical data

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<tr>
<td>Setting time</td>
<td>3-5 min. (99°F / 37°C)</td>
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Glass Ionomer Mixer

AC Applicator type 1

AC Applicator type 2
VOCO introduces the newest member of the Meron Plus family in Meron Plus QM, a paste/paste resin modified glass ionomer cement that stands out among other brands for its particularly strong adhesion, tack cure and easy clean-up. Meron Plus QM is indicated for daily use and even in cases with unfavorable core geometry where conventional cements do not offer sufficient retention.

A Leader in RMGI Cement Adhesive Values
As studies indicate, Meron Plus QM is a leader in adhesive values. For example, Meron Plus QM’s shear bond strength on human dentin is 11.3 MPa, which is almost twice that of the leading brand. This provides an additional safety factor for the practitioner and the patient even in cases of low retention such as short, tapered cores.

Bond Strength to Zirconium Dioxide
Meron Plus QM is indicated for all high strength all-ceramic restorations, including zirconium dioxide, where it offers significantly higher bond strength compared to other brands of resin modified glass ionomer cements.
Meron Plus QM

PASTE/PASTE RMGI CEMENT WITH REAL ADVANTAGES

Additionally, Meron Plus QM offers quick and easy clean-up of excess material with a simple tack-cure, while also providing low water solubility for improved overall longevity and success as a permanent cement. Meron Plus QM offers all of the traditional advantages practitioners are accustomed to in high-quality glass ionomer cements, including self-adhesion without a primer or conditioner and continuous fluoride release.

Long-term security
For durable, long-lasting, secure cementation, the water solubility of the cement material, along with the adhesion values, is of crucial importance. The objective is low water solubility in order to avoid decementation due to moisture penetration via the cement joints – even if they are small. Meron Plus QM with its low water solubility, offers optimal values, especially when compared to other brands within the category as shown in the comparison here.

![Water solubility chart]

Source: Internal measurement

Tack curing – Removal of excess material without any waiting time!
Through the use of short-term light-curing, the time until removal of excess Meron Plus QM can be shortened, thus eliminating the wait time after insertion. Simply light-cure the excess material briefly (approx. 5–10 s per segment) and remove directly. The curing of the remaining material remains unaffected.
Meron Plus QM

OPTIMIZED MAKE-UP AND DELIVERY FOR HIGH-QUALITY RESULTS

In addition to the high adhesive values and simple clean-up, Meron Plus QM offers clear advantages for everyday use via its convenient paste/paste makeup and precise QuickMix delivery system. Together they offer an optimal time frame for extraoral processing after mixing and an adjustable time frame for removing excess material.

The QuickMix syringe – for easy and precise delivery
The utilization of the practical QuickMix syringe enables a simple, fast and very precise mixture and application directly into the prepared restoration. This eliminates the need for an additional applicator as well as the potential for a mixing error.

Convenient working time
With an extraoral working time of 2 minutes, Meron Plus QM offers sufficient time for the application of the material in the restoration – for both single tooth restorations as well as multi-unit bridges. This convenient working time represents a clear handling advantage compared to other brands. Together with Meron Plus QM’s low film thickness, this satisfies the basic requirements for an accurately-fitting insertion.

Like all products in the Meron Plus family, Meron Plus QM is self-curing in addition to its unique ability to accept a tack cure. Once the gel phase is achieved (whether through a light-cure or self-curing), the excess material can be removed simply and cleanly.

Compared to most other brands, Meron Plus QM offers continuous high fluoride release allowing for better longevity and more peace of mind once the restoration is cemented in place.

Fluoride Release (60 d)

Source: Internal measurement
Meron Plus QM

RESIN MODIFIED GLASS IONOMER CEMENT

Clinical Case

Application of Meron Plus QM in the restoration
Short-term light-curing (tack curing)
Easy removal of excess material. Additional removal of excess material in the approximal areas using dental floss.
Completed treatment

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

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
- 2×’s the bond strength to dentin than 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
- Moisture and acid resistant
- Self-adhesive: secure and quick bonding without primer or conditioner
- QuickMix syringe ensures optimal application and a reliable mixing ratio

MERON PLUS QM – TECHNICAL DATA

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<td>Setting Time:</td>
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<tr>
<td>Tack curing time:</td>
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<td>Bond strength dentin:</td>
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<td>Bond strength to zirconium dioxide:</td>
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Presentation

REF 1727 QuickMix syringe 8.5 g, accessories
REF 1728 QuickMix syringe 3 × 8.5 g, accessories
REF 2189 mixing tips type 10 – 50 pack

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IONOSTAR® MOLAR
IONOSTAR® PLUS
IONOLUX®
MERON
MERON PLUS
MERON PLUS QM