



# MonoCem™

## SELF ADHESIVE RESIN CEMENT

Dual Cure

### DIRECTIONS FOR USE

#### Indications

For cementation of PFM, gold, CEREC® and reinforced all-ceramic crowns, inlays, onlays, gold, metal, titanium and fiber posts; and for bonding stainless steel and nylon splinting materials. Optimum mechanical retention is indicated for bonding to zirconia type surfaces. For bonding to ceramic, a well-etched or roughened surface is indicated.

#### Setting Characteristics

Self-cure and light cure.

The self-cure polymerization reaction occurs by anaerobic polymerization. This means that the reaction does not begin while the material is exposed to air. It begins when the restoration is seated and air is eliminated. This feature provides very long working time and explains why material left on the mixing pad may not polymerize.

Light curing of dental resins is recommended whenever possible. Light cured resins are harder, stronger and have better surface qualities than self-cured resins.

#### How to use the Automix Syringe

**Each time you use the auto-mix syringe, it is essential to ensure that material is flowing evenly from both base and catalyst sides. This is especially important the first time the syringe is used, as settlement during shipping may have changed the level of material in one side of the syringe, relative to the other side.**

1. If the level is not the same in both orifices, bleed excess material from the syringe until both sides flow evenly. To ensure an even mix of base and catalyst, first dispense 2-3 mm of cement onto a pad and discard this material. Place a mixing tip on the auto-mix syringe.
2. Dispense evenly mixed cement directly onto the tooth or into the restoration.
3. To stop the flow of material through the mixing tip orifice, do not retract the plunger, as this may pull mixed material back into either side of the syringe and cause it to plug up. Instead, remove and then replace the mixing tip from the syringe end. This action will relieve pressure inside the mixing tip and stop the excess material from extruding. Recap syringe.

#### Resin Cement Instructions for Use

*Slightly* moist tooth surfaces exhibit neither dryness nor pooling of water. Lightly dry and remove excess water with compressed air or a cotton pellet. Tooth surfaces should be shiny or glossy. Overly wet surfaces will result in decreased bond strength. Ceramic, metal, cured resin and pre-hybridized surfaces should be dry.

#### Reinforced All-Ceramic Restorations

Follow ceramic restoration manufacturer's recommended tooth reduction specifications when preparing teeth for reinforced all-ceramic restorations. Reinforced all-ceramic restorations should be closely fitted. Instruct the laboratory to reduce die spacer to accommodate cement with a low film thickness of 12 microns. To optimize mechanical retention, a well-etched ceramic surface is recommended.

#### For Post Cementation

1. Prepare the post hole.
2. Rinse and lightly dry. Remove excess water with a short blast of air or paper points. LEAVE DENTIN SLIGHTLY MOIST.
3. Etching and bonding agents are not required.
4. Automix cement by placing a mixing tip on the double barrel syringe and dispensing material (discard the first 2-3 mm, which may not have an equal mix of base and catalyst). Carefully recap syringe. Do not cross-contaminate base and catalyst.
5. Place cement into canal without creating voids.

6. Seat post.
7. Remove excess cement.
8. Light cure 40 seconds. Cement will completely auto-cure in 7 minutes. Treatment can be completed after complete curing.

#### For Crown Cementation

1. Etch or microabrade the internal surface of the crown. Rinse and dry.
2. Rinse tooth preparation and lightly dry to remove excess water. LEAVE TOOTH SURFACES SLIGHTLY MOIST.
3. Etching and bonding agents are not required on dentin. Etching uncut enamel is indicated.
4. For prehybridized or existing composite surfaces, clean and etch or mechanically roughen the surface, rinse and dry. For best results, pre-existing resin surfaces should be dried before applying MonoCem Resin Cement.
5. Place lubricant on adjacent teeth.
6. Automix cement by placing a mixing tip on the double barrel syringe and dispensing material (discard the first 2-3 mm, which may not have an equal mix of base and catalyst). Carefully recap syringe. Do not cross-contaminate base and catalyst.
7. Place cement inside the crown and seat crown to place.
8. **Remove all excess cement at margins and use dental floss for interproximal areas while maintaining positive pressure on the crown. Cement may bond to adjacent teeth if excess is not removed.**
9. Light cure margins. Maintain positive pressure for 2 1/2 minutes. Cement will completely auto-cure in 7 minutes.

#### For Inlays and Onlays

1. Rinse tooth preparation and lightly dry to remove excess water. LEAVE TOOTH SURFACES SLIGHTLY MOIST.
2. Etching and bonding agents are not required on dentin. Etching uncut enamel is indicated.
3. Automix cement by placing a mixing tip on the double barrel syringe and dispensing material (discard the first 2-3 mm, which may not have an equal mix of base and catalyst). Carefully recap syringe. Do not cross-contaminate base and catalyst.
4. Place cement into the preparation and seat the restoration.
5. **Remove all excess cement at margins and use dental floss for interproximal areas while maintaining positive pressure on the inlay or onlay. Cement may bond to adjacent tooth if excess is not removed.**
6. Light cure 20-30 seconds. Maintain positive pressure for 2 1/2 minutes. Cement will completely auto-cure in 7 minutes.

#### Splinting Materials

1. If bonding to enamel, first etch enamel, rinse and leave slightly moist. Bonding agents are not required but may be used if desired.
2. Place splinting material and bond to place in the usual manner.

#### Caution

Uncured material may cause eye or skin irritation on contact. Dental professionals should wear safety glasses and surgical gloves.

#### Storage and Handling

- Store tightly sealed in original container at cool room temperature. Avoid direct light, extremes of temperature, contamination and sources of ignition.
- Shelf life of unopened product: 2 years from date of manufacture.
- Re-cap immediately after use.

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