

Embrace™ WetBond™ Resin Cement

Dual Cure • Fluoride Releasing • Hydrophilic • Radiopaque

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1. Product Description

Thank you for purchasing Embrace Resin Cement, the first resin cement that bonds to the slightly moist tooth. Available in low and medium viscosity, Embrace Resin Cement is formulated with a proprietary hydrophilic resin that is unique to Embrace technology. It is not a glass ionomer and does not contain reactive glass.

Embrace Resin Cement is self-adhesive, forming chemical bonds to dentin and enamel, precious and non-precious metals, ceramics, composites, and fiber posts. Bonding agents are not required; however, they may be used if desired. It is not necessary to etch dentin, but etching uncut enamel surfaces is indicated.

Note: Apply disposable barrier sleeves/wraps over multiple-use dental dispensers before use with each patient. For additional information, refer to:

<http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/DentalProducts/ucm404472.htm>

Apply Embrace Resin Cement to slightly moist tooth surfaces. Ceramic, metal, resin desensitized, prehybridized and cured resin surfaces should be dry.

The low 12-micron film thickness is ideally suited for luting applications. The cement is radiopaque and is filled with both sub-micron and micron sized particles.

Place OxOut Oxygen Inhibiting Gel over exposed margins to prevent the formation of an oxygen-inhibited layer, if desired.

After light curing, the cement is impervious to water and creates an outstanding marginal seal.

Placing Embrace Seal-n-Shine™ over the cement and margins further seals the restoration, providing exceptional marginal integrity and protection for both the tooth and the restoration.

2. Indications

Recommended 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.

3. Contraindications

Not recommended for porcelain veneers or Maryland Bridges.

4. Setting Characteristics

Embrace WetBond Resin Cement is both self-cure and light cure.

The Embrace WetBond 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 provides a more complete cure than self-curing and is recommended whenever possible. Light cured resins are harder, stronger and have better surface qualities than self-cured resins.

5. Clean Up

After seating the restoration, maintain positive pressure for 2 minutes. During this time remove excess with a brush, or tack cure margins for 1-2 seconds and gently tease away excess with a suitable instrument. Also clear contacts and interproximal areas with floss.

6. How to use the Automix Syringe:

1. Remove cap. If necessary bleed the syringe so that base and catalyst are at the orifice of the syringe barrels. Place a mixing tip on the automix syringe.

2. To ensure an even mix of base and catalyst, the first time using the syringe dispense 2-3 mm of cement onto a pad and discard this material.
3. Dispense evenly mixed cement directly onto the tooth or into the restoration.
4. Discard mixing tip. Recap syringe. Do not cross-contaminate base and catalyst.

7. Slightly Moist Tooth Surfaces Defined

Slightly moist tooth surfaces exhibit neither dryness nor pooling of water. Lightly dry and remove surface water with compressed air or a cotton pellet. Tooth surfaces should be shiny or glossy. Overly wet surfaces will result in decreased bond strength.

8. Ceramic, Metal, Resin Desensitized, Prehybridized and Cured Resin Surfaces

Ceramic, metal, resin desensitized, prehybridized and cured resin surfaces should be dry.

9. 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.

10. Instructions for Crown, Inlay and Onlay Cementation

1. Your laboratory should etch or abrade the tooth contacting surfaces of restorations to be cemented. If not, etch or microabrade these surfaces. 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. **If cementing to existing ceramic, metal, resin desensitized, prehybridized and cured composite surfaces in the mouth, clean and etch or mechanically roughen the surface, rinse and dry. Be sure to dry these surfaces before applying Embrace Resin Cement.**
5. Place lubricant on adjacent teeth.
6. Automix Embrace Resin Cement by placing a mixing tip on the double barrel syringe and dispensing material (the first time using the syringe discard the first 2-3 mm, which may not have an equal mix of base and catalyst), or dispense equal amount of base and catalyst and hand mix. Carefully recap syringes. Do not cross-contaminate base and catalyst.
7. Place cement inside the crown and seat crown, or place cement into the restoration and seat the inlay or onlay.
8. Maintain positive pressure on the crown for 2 minutes. During this time remove excess from margins with a brush, or tack cure margins for 1-2 seconds and gently tease away excess with a suitable instrument. Clear contacts and interproximal areas with floss. Cement may bond to adjacent teeth if excess is not removed.
9. Apply OxOut oxygen inhibiting gel on exposed margins to eliminate the air-inhibited layer, if desired.
10. Light cure all-ceramic restorations and margins of PFM crowns for 20-30 seconds. Cures with all lights. Maintain positive pressure for 2 minutes. Complete anaerobic auto-cure setting time of Embrace Resin Cement at mouth temperature (37°C / 98.6°F) is 3 minutes.
11. To provide exceptional marginal integrity, place Embrace Seal-n-Shine over cement at margins and light cure following the instructions below for Seal-n-Shine.

11. Instructions 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 on dentin.
4. Automix Embrace Resin Cement by placing a mixing tip on the double barrel syringe and dispensing material (the first time using the syringe discard the first 2-3 mm, which may not have an equal mix of base and catalyst), or dispense equal amount of base and catalyst and hand mix. Carefully recap syringes. 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. Cures with all lights. Cement will completely auto-cure in 3 minutes. Resume treatment after complete curing.

12. Instructions for Splinting Materials

1. If bonding to enamel, first etch enamel, rinse, lightly dry 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.

13. Instructions for Seal-n-Shine

Clean and dry ceramic, metal and cured resin surfaces. Leave prepared tooth surface slightly moist. 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.

1. **For enamel and composite**, etch or microabrade for 10 seconds. **For ceramic surfaces**, place rubber dam and etch with Pulpdent Porcelain Etch Gel. Pulpdent Kool-Dam should be

used to protect soft tissue, teeth or porcelain surfaces, as required.

2. Rinse well. Dry ceramic, metal and cured resin surfaces. Lightly dry enamel and leave prepared tooth surface slightly moist.
3. When necessary, place dental floss through the contacts and leave it in the embrasures. Use later to clear contacts and prevent bonding to adjacent tooth surfaces. The teeth can be wedged and a mylar strip can be placed, if desired.
4. Apply a thin coat of Seal-n-Shine to the etched tooth and restorative surfaces with a flocked dispenser tip or a clean brush.
5. Remove the dental floss by lifting interproximally through the contacts. **It is important for the contacts to be open.**
6. Light cure. Seal-n-Shine cures with all lights. Curing time for a halogen light with a minimum of 300 mW/cm² is 20 seconds. More powerful lights will cure faster.

14. Caution

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

15. 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.

CEREC is a registered trademark of Sirona Dental Systems, Germany.



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