



Ultra-Bond®

Ultra-Bond Plus

Dual-Cure

Restorative Resin Cement Kit

America's only dual-barrel porcelain restorative resin cement backed by 20 years of evidence-based research



Store Under Refrigeration



Ultra-Bond® Plus is a multi-purpose, photo-initiated, dual-cure, restorative resin cement that excels at bonding porcelain restorations. Ultra-Bond Plus's physical properties are matched to tooth structure and Lumineers® Porcelain, virtually eliminating cracking, crazing, and pop-offs. Ultra-Bond Plus also provides high abrasion resistance, excellent radiopacity, and an opacity that reproduces the beauty of natural teeth.

PRELIMINARY RECOMMENDATIONS

Note: Always remove Ultra-Bond® Plus from the refrigerator about one hour prior to use to allow time for the material to return to room temperature.

Note: If Tenure® A and Tenure® B are refrigerated, bring to room temperature and shake vigorously before use.

Note: It is imperative that you use magnification and illumination, such as the PeriOptix® line. You will be able to work more effectively and precisely. Your own prescription can be placed in the eyeglass lenses (see Figure 1).



Figure 1

CAUTION: Wear eye protection and protective gloves while using this product.

CAUTION: Ultra-Bond products contain methacrylate monomers which have been known to cause allergic reaction in individuals sensitive to these ingredients.

CAUTION: Ultra-Bond has not been studied in children, pregnant or breast-feeding women.

Intended Therapeutic and/or Diagnostic Indications and Claims

Ultra-Bond is intended for use as both an ADA Type II restorative as well as a cement. It is recommended for cementing porcelain inlays, onlays and veneers to dentin or enamel. Ultra-Bond (called "Revitalize™" when sold for this application) is also recommended for bonding porcelain to PFMs (Porcelain Fused to Metal), thus eliminating the need to remove existing PFM restorations that, other than for aesthetic failings, are clinically sound. Ultra-Bond may also be used to cement full porcelain crowns to dental surfaces.

PREPARATION OF LUMINEERS® AND TOOTH SURFACES

1. PREPARATION OF LUMINEERS

- a. After the patient is seated, treat the Lumineers with Porcelain Conditioner for 30 seconds. Rinse and dry well.
- b. Apply Cerinate Prime® to the Lumineers for 30 seconds and blow thin.
- c. Place Lumineers back into the case box in their proper slots. Close lid (or cover from light). Once Cerinate Prime is applied to Lumineers, shield Lumineers from the light until they are seated.

2. PREPARATION OF TOOTH SURFACES

- a. Clean the teeth with a slurry of pumice and water or Porcelain Laminate Polishing Paste.
- b. Paint-On Dental Dam (optional) is helpful and recommended for Lumineers placement. Before bonding, syringe Paint-On Dental Dam on the lingual side

of the interproximals, covering gums and teeth thoroughly. Light-cure for 5 seconds per tip width with the Sapphire® Plus curing light. This will make your clean-up faster and easier.

- a. Etch teeth for 20 seconds with Etch 'N' Seal®. Rinse and dry.
- d. Mix together equal amounts of Tenure® A and Tenure B in a dappen dish. Apply 3-5 coats of the Tenure A-B mixture to each tooth (or until the surface is glossy). Let sit for 10-15 seconds, then gently air-dry.

3. TRY-IN OF LUMINEERS

- a. Select a shade of Ultra-Bond® Plus Try-In Paste and syringe into prepared Lumineers®.
- b. Gently place the Lumineers one at a time and use a brush to clean up the excess Ultra-Bond Plus Try-In Paste.

4. SHOW PATIENT

- a. Hold a mirror approximately 16 inches away from the patient's face and let the patient examine his/her smile.
- b. If the shade is not what you or the patient wants, remove the Ultra-Bond Plus Try-In Paste from the Lumineers and tooth surfaces with a Skubes® sponge or a clean, dry brush. Reapply a new shade of Ultra-Bond Plus Try-In Paste and check the shade again.

Note: Do not use Tenure S. Only use Tenure S to clean up excess once final Ultra-Bond Plus Try-In Paste has been selected. Any residue of Ultra-Bond Plus Try-In Paste will be polymerized by Tenure S.

5. REMOVE LUMINEERS AFTER TRY-IN

- a. Use a N349 instrument or cotton pliers and gently tease the Lumineers off the tooth surfaces.
- b. Remove the Ultra-Bond Plus Try-In Paste from the Lumineers and tooth surfaces with a Skubes sponge or a clean, dry brush.
- c. After cleaning residual Ultra-Bond Plus Try-In Paste from the Lumineers with Tenure S, gently thin the Tenure S with air. A thin film will be left on both the tooth and porcelain surfaces. Place Lumineers back in the case box in their proper slots. Close lid (or cover from light).

Note: There is no need to reapply Porcelain Conditioner or Cerinate Prime if you are cementing directly after try-in.

BONDING LUMINEERS

1. BONDING LUMINEERS TO AN ENAMEL OR DENTIN SURFACE

- a. Select the appropriate shade of Ultra-Bond Plus resin cement.

Note: After placing the auto-mixer tip on the Ultra-Bond Plus syringe, always extrude and discard a 1/4-inch line of material before using to ensure adequate mixing of the material.

Note: If patient has dark stains, such as tetracycline stains, we recommend using the Cerinate® Shade Modification System II. If shade modification or basic opaque adjustment is necessary, refer back to the SHADE ADJUSTMENT section. If not, proceed to the next step.

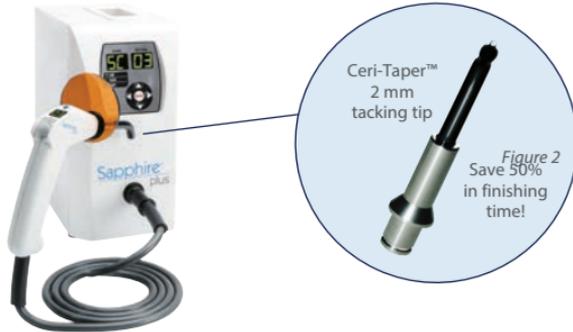
b. Apply Ultra-Bond Plus to the prepared Lumineers and seat on teeth.

Note: Ultra-Bond Plus has an extended working and set time to permit placement of multiple units. We suggest that the clinician dispense a small amount of Ultra-Bond Plus onto a mixing pad a minute or two before beginning placement and monitor it for working time to provide warning in the event that the placement takes longer than anticipated.

c. After placing Lumineers, remove excess Ultra-Bond Plus using a Tenure S Dab-Eze sponge or soft brush coated with Tenure S.

d. Tack Lumineers in place for 2 seconds using the Sapphire® Plus curing light fitted with a Ceri-Taper 2 mm tacking tip (see Fig. 2).

e. When all Lumineers have been tacked into place, commence with final light curing of all surfaces using a 9mm tip.



VERY IMPORTANT TOOL!

FINISHING

At the placement appointment, only minimal finishing is suggested to finish the DEJ and to remove any excess resin cement. Do not open the embrasures. Maximum bonding occurs in 24 hours. Final finishing should be performed at next visit. We recommend the Lumineers Finishing Kit (No. 033897100), which includes all components listed in the following instructions. (See Fig. 3 to reference the burs used during finishing.)

- Clean up any leftover Ultra-Bond Plus using either the carbide 12 fluted bur (B) or the carbide clean-up bur (F).
- Use a N349 instrument to remove the cured cement along the margins, as well as from the interproximal area along both the facial and the lingual. You may also use the carbide 12 fluted bur (B). This bur is an excellent tool for cleaning

- up residual resin cement and for finishing composites.
- c. Using a diamond mosquito interproximal bur (E), remove the porcelain ledge, if any.
 - d. Using the diamond mosquito interproximal bur (E), refine the margins along the interproximal area, if necessary.
 - e. Trim/polish the margins of the Lumineers, if necessary. Use a diamond extra-fine smoothing bur (D) to smooth out porcelain.
 - f. Explore the tooth structure next to the Lumineers to check margins. There should not be a catch (or bump).
 - g. If necessary, further polish the margins using the diamond mosquito interproximal bur (E) again.
 - h. Check the bite with articulating paper. Use the diamond football bur (C) on the lingual to finish the incisal wrap and adjust high spots or length.
 - i. Place a wooden wedge interproximally (optional).
 - j. Use the CeriSaw™ to separate the teeth using a rocking motion. Leave the wooden wedge in place.
 - k. Use the CeriSander™ (fine grit) to smooth the interproximal surfaces.
 - l. Use the CeriSander (ultra-fine grit) to further smooth the interproximal surfaces. It is important that you use each sanding blade only two or three times per tooth to smooth contacts.
 - m. Remove the wooden wedge.
 - n. Check the interproximal surfaces with dental floss for smoothness.
 - o. Polish the new smile beginning with a carbide clean-up bur (F). Continue with Porcelain Laminate Polishing Paste using polishing cup (G).

SPECIAL INSTRUCTIONS:

BONDING LUMINEERS TO A PORCELAIN SURFACE

- a. Sandblast (microetch) to roughen the porcelain surface.
- b. Avoiding soft tissue contact, apply PorceLock® porcelain etchant (No. 402060) to the porcelain surface for 2-3 minutes. Rinse and dry.
- c. Apply Porcelain Conditioner to the porcelain surface for 30 seconds. Rinse and dry.
- d. Apply Cerinate Prime (No. 1399) and gently air-dry.
- e. Apply Ultra-Bond Plus resin cement inside Lumineers and place Lumineers on the porcelain surface.
- f. Light-cure for 1-2 seconds using the Ceri-Taper 2 mm or 4 mm tacking tip and the Sapphire® Plus curing light. Remove excess Ultra-Bond Plus resin cement from the margins by using a soft brush coated with Tenure S. Using a 9 mm tip and the Sapphire Plus curing light, completely cure all Lumineers, exposing each surface for 5 seconds.

Note: Maximum bonding occurs in 24 hours. Final finishing is to be performed at next visit.

- g. Adjust the occlusion and perform a routine finish on the margins.

SHADE ADJUSTMENT

1. MIXING

- a. Blend shades necessary to achieve the desired color. (See “Lumineers® Chairside Color Modification Tips”; included in the DenMat Shade Modification System II or available at www.denmat.com.) Use Cerinate Clear to reduce the intensity, if necessary. Shades may be blended on a mixing pad prior to placement or on the tooth prior to curing.

2. PORCELAIN BONDED RESTORATIONS

- a. Layer Cerinate Shade Modifier/Opaquer onto Lumineers or another silanated porcelain restoration, followed by Ultra-Bond® Plus. The modifiers/opaquers can also be mixed directly with Ultra-Bond to achieve desired shades. The modified shade of Ultra-Bond Plus can then be placed in the restoration. Proceed with cementation.

3. TETRAPAQUE® DIRECTIONS

- a. Mix equal parts of the TetraPaque shade of choice and TetraPaque Dual-Cure Initiator on a mixing pad or in a dappen dish. Once mixed, TetraPaque will self-cure in 4-6 minutes. Plan your placement accordingly.
- b. Apply the mixed dual-cure TetraPaque to the prepared tooth with a fine sable brush. Apply as thinly and smoothly as possible to mask discoloration.
- c. Apply and seat the Lumineers (or other silanated porcelain restoration) with Ultra-Bond Plus luting composite inside the veneer.
- d. Determine the proper curing time for your curing light by using the curing rings provided.
 - i. Place the mixed dual-cure TetraPaque into the well in the curing ring and light-cure:
 - Sapphire Plus curing lights (all models) start with 5-second exposures.
 - Flashlite® LED curing lights (all models) start with 10-second exposures.
 - For all other curing lights; halogen, LED and other, refer to the manufacturer instructions. A minimum of 10-30 seconds is recommended.
 - ii. Use a dental probe to check the underside for completeness of cure.
 - iii. If necessary, repeat the curing cycle until the underside of the sample is completely cured.
- e. Cure the restoration for the time determined during testing.

4. TETRAPAQUE PINK DIRECTIONS

Note: TetraPaque Pink neutralizes dark stains, such as tetracycline stains, and results in a warmer, natural color.

- a. Apply TetraPaque Pink to the prepared tooth surface using a sable brush. Blend TetraPaque Pink onto the tooth structure.

- b. Apply Ultra-Bond Plus to the bonding surface of the veneer.
- c. Gently seat the veneer. Observe the results.
- d. If the desired shade is achieved, proceed to the BONDING Lumineers section.

5. SPECIAL TIPS

- a. To neutralize yellow, orange, or yellow-orange stains, use a combination of violet, blue, or blue-violet shades. There is no formula, but the Cerinate Shade Modifiers, Ultra-Bond Plus and TetraPaque are sure to offer a combination that works for you.
- b. A low-value yellow (gray-yellow) stain can be neutralized by violet (to neutralize the yellow) and white (either Cerinate Shade Modifier White or TetraPaque Enamel).

Note: For additional information, refer to the “Lumineers Chairside Color Modification Tips,” which is included in the Cerinate Shade Modification System II or available at denmat.com.

Note: After color selection is achieved with modifiers/opaquers, internal surfaces of Lumineers do not need to be re-treated.

Note: If you have elected to skip Lumineers try-in, brush a thin coat of Tenure S into each of the Lumineers and thin with air.

Figure 3



- A. Diamond porcelain ledge bur
- B. Carbide 12 fluted bur
- C. Diamond football bur
- D. Diamond extra-fine smoothing bur
- E. Diamond mosquito interproximal bur
- F. Carbide clean-up bur
- G. Polishing cup

STORAGE

Do not expose to temperatures exceeding 75° F (24° C).

Do not expose to direct sunlight.

Do not freeze.

For maximum shelf life, refrigerate Ultra-Bond Plus resin cement. Bring to room temperature prior to use.

RELATED PRODUCTS AVAILABLE FROM DENMAT

Description	Kit Number
Ultra-Bond® Plus Multi-Shade Kit	032599750
Ultra-Bond® Try-In Paste Kit	031343550
BLOCK-OUT® By Ultra-Bond Multi-Shade Kit	032491510
Lumineers® Finishing Kit	033897100
Tenure® MPB System	031146000
Tenure Uni-Bond® with Gloss-N-Seal®	030411900
Cerinate Prime® and Cerinate® Porcelain Conditioner	1399
Cerinate® Shade Modification System II	033909900
CeriSaw™	031336500
CeriSander™	031337500
Tenure S® Dab-Eze	031145201
Sapphire® Plus Curing Light	033968000

SAFETY DATA SHEETS AVAILABLE AT www.denmat.com



Den-Mat Holdings, LLC
1017 W. Central Avenue
Lompoc, CA 93436 USA



MDSS GmbH
Schiffgraben 41
30175 Hannover, Germany



Symbols Glossary available at: www.denmat.com/symbols