

BASIC STEP-BY-STEP INSTRUCTIONS



LUMINEERS® Placement System

BONDING LUMINEERS TO AN ENAMEL OR DENTIN SURFACE

1. 4-POWER MAGNIFICATION

Note: It is imperative that you use 4-power magnification or higher. You will be able to work more effectively and foresee problems. Your own prescription can be placed in the eyeglass lenses.



Cerinate Magnification System Kit No. 040201420

2. PREPARATION OF LUMINEERS

- After the patient is seated, treat the **LUMINEERS** with **Porcelain Conditioner** for 30 seconds. Rinse and dry well.
- Apply **Cerinate Prime®** to the **LUMINEERS** for 30 seconds and blow thin.
- Place **LUMINEERS** back into the case box in their proper slots.

3. PREPARATION OF TOOTH SURFACES

- Clean the teeth with a slurry of **Porcelain Laminate Polishing Paste**.
- Paint-On Dental Dam** (optional) is a helpful tool 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® Supreme Plasma Arc Curing Light**. This will make your clean-up faster and easier.
- Etch teeth for 20 seconds with **Etch 'N'Seal®**. Rinse and dry.
- Mix together equal amounts of **Tenure® A and B**. Apply 3-5 coats of the A-B mixture to each tooth (or until the surface is glossy), then dry the tooth surfaces.

4. TRY-IN OF LUMINEERS

Ultra-Bond® Plus Try-In Paste is a non-setting and non-aqueous paste corresponding to the shade of fully cured **Ultra-Bond® Plus**.

It is always best to try-in **LUMINEERS** with **Ultra-Bond Plus Try-In Paste** to get a more natural, translucent appearance. **Try-In Paste** is a must for patient satisfaction and acceptance.

- Syringe the **Ultra-Bond Plus Try-In Paste** into each of the **LUMINEERS**.
- Gently insert the **LUMINEERS** one at a time and use a brush to clean up the excess **Try-In Paste**.

5. SHOW PATIENT

Hold a mirror approximately 16 inches away from the patient's face and let them examine their smile.

- If the shade is not what you or the patient wants, remove the **Try-In Paste** from the **LUMINEERS** and tooth surface with a **Skubes®** or a clean, dry brush. Reapply a new shade of **Try-In Paste** and check the shade again.

6. TO REMOVE LUMINEERS AFTER TRY-IN

- Use a **Schure 349** instrument or cotton pliers and gently tease the **LUMINEERS** off the tooth surfaces.
- Remove the **Try-In Paste** from the **LUMINEERS** and tooth surfaces with a clean brush. **Only** use **Tenure S** **once final Try-In Paste has been selected** to clean up excess. Any residue of **Try-in Paste** will be polymerized by **Tenure S**.
- Gently thin the **Tenure S** with air. A thin film will be left on both the tooth and porcelain surfaces.

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

7. BONDING LUMINEERS

Select the appropriate shade of **Ultra-Bond Plus Resin Cement**.

NOTE: If patient has dark stains, such as tetracycline stains, we recommend the use of **Cerinate®** shade modifiers and opaquers from the **Cerinate Shade Modification Kit**. If shade modification is necessary, refer to the SHADE ADJUSTMENT section following. If not, proceed to the next step.

BASIC STEP-BY-STEP INSTRUCTIONS

NOTE: After color selection is achieved with modifiers and opaquers, internal surfaces of **LUMINEERS** do not need to be retreated.

- a. Apply **Ultra-Bond Plus** to the prepared **LUMINEERS** and put in place.

NOTE: **Ultra-Bond** has an extended working and set time to permit placement of multiple laminates. 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.

- b. After placing **LUMINEERS**, remove excess **Ultra-Bond** with a soft brush coated with **Tenure S** or **Tenure S Dab-Eze®** sponges.



VERY IMPORTANT TOOL!

- c. Tack **LUMINEERS** in place for 2 seconds using the **Sapphire® Supreme PAC Light** fitted with a **Ceri-Taper™ 2 mm tacking tip**.
- d. Continue to remove excess cement with a soft brush coated with **Tenure S**.
- e. Completely light-cure all **LUMINEERS**, exposing each surface for 5 seconds with the **Sapphire Supreme PAC Light** fitted with a 9 mm tip.

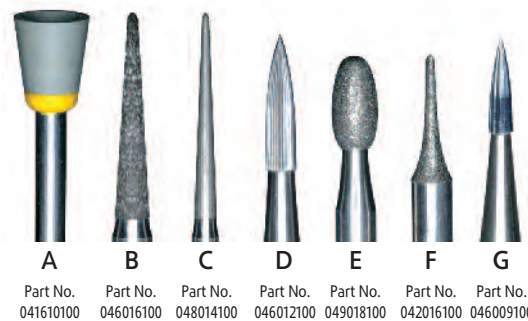
8. FINISHING

NOTE: We recommend the **LUMINEERS Finishing Kit** (No. 033897100), which includes all the tools mentioned below.

- a. Clean up any leftover **Ultra-Bond** resin cement using bur G (or D).
- b. Use Den-Mat's **Schure 349** 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 bur G. This bur is an excellent tool for cleaning up residual resin cement and also is great for finishing composites.
- c. Use bur B to remove the porcelain ledge.
- d. Trim/polish the margins of the porcelain veneer. Use extra-fine diamond C.
- e. Using the interproximal fine diamond bur F, known as the "mosquito" diamond, refine the margins along the interproximal area.
- f. Explore the tooth structure next to the **CERINATE LUMINEERS** to check margins. There should not be a catch or bump.
- g. If necessary, further polish the margins using the

interproximal fine diamond bur F again.

- h. Check the bite with articulating paper. Use bur E, the American football-shaped bur, 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. Leave the wooden wedge in place (if used).
- k. Use the **CeriSander** (fine grit) to smooth the interproximal surfaces.
- l. Remove the wooden wedge (if used).
- m. 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 to open contacts.
- n. Check the interproximal surfaces with dental floss for smoothness.
- o. Polish the new smile with **Porcelain Laminate Polishing Paste**.



SHADE ADJUSTMENT

1. MIXING

Blend shades necessary to achieve the desired color (see enclosed **Guidelines for Color Correction**). 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

Layer **Cerinate Shade Modifiers** onto **LUMINEERS** or a silanated porcelain restoration followed by **Ultra-Bond**. The modifiers can also be mixed directly with **Ultra-Bond** to achieve desired shades. The modified shade of **Ultra-Bond** can then be placed in the restoration. Proceed with cementation.

3. TETRAPAQUE® DIRECTIONS

- a. On a mixing pad or in a dappen dish, mix equal parts of the **TetraPaque** shade of choice and **TetraPaque Dual Cure Initiator**. **Once mixed, TetraPaque will self-cure in 4 to 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** luting composite inside the veneer.
- d. Determine the proper curing time for your curing light by using the curing rings provided.

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- I. Place the mixed dual-cure **TetraPaque** into the well in the curing ring and light-cure starting with:
 - 5 seconds—**Sapphire® Supreme PAC Light**
 - 10 seconds—**Allegro High-Intensity LED** or the **Phase II High Speed Halogen Light**
 - 30 seconds—conventional curing light.
- 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.
- IV. Cure for the time determined above.

4. TETRAPAQUE PINK DIRECTIONS

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** 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, follow Step (7) in BONDING LUMINEERS directions, under BONDING LUMINEERS TO AN ENAMEL OR DENTIN SURFACE.

5. SPECIAL TIPS

For additional information, refer to the enclosed **Guidelines for Color Correction**.

- a. To neutralize yellow, orange, or yellow-orange stains, use violet, blue, blue-violet, or some combination of these shades. There is no formula, but the **Cerinate Shade Modifiers**, **Ultra-Bond®** 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**).

BONDING PORCELAIN TO A PORCELAIN SURFACE

1. BONDING DIRECTIONS

- a. Sandblast (microetch) to roughen the porcelain surface.
- b. Apply **Porcelock Porcelain Etchant** (Kit No. 402060) to the porcelain surface for 2-3 minutes; rinse and dry. Avoid soft tissue contact.

- c. Apply **Porcelain Conditioner** to the porcelain surface for 30 seconds; rinse and dry.
- d. Apply **Cerinate Prime®** (Kit No. 1399) and gently air dry.



BEFORE

- e. Apply **Tenure A** and **B**.
- f. Use the **Cerinate Shade Modifier** and **TetraPaque Opacuer** (a thin layer) on the metal to mask discoloration, if needed. (See *For Gumline Discoloration* section).



AFTER

- g. Apply **Ultra-Bond Resin Cement** inside **LUMINEERS** and place **LUMINEERS** on the tooth surface.
- h. Light-cure for 1-2 seconds using the **Ceri-Taper 2 mm** or 4 mm tacking tip and the **Sapphire Supreme PAC Light**. Remove excess **Ultra-Bond Resin Cement** from the margins by using a soft brush coated with **Tenure S**. Using

a 9mm tip and the **Sapphire Supreme PAC 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.

- i. Finishing—Adjust the occlusion and perform a routine finish on the margins.

STORAGE

For maximum shelf life, refrigerate **Ultra-Bond Plus Resin Cement**. Bring to room temperature prior to use.

Avoid exposure to temperatures exceeding 75° F (24° C).

Do Not expose to direct sunlight.

Do Not freeze.

ORDER NUMBERS:

Cerinate Prime® and **Porcelain Conditioner**1399
 Cerinate Prime 5 mL1398
 Porcelain Conditioner . . .1002A

PorceLock® Porcelain Etchant (3 Syringe kit)402060

Etch'N'Seal®
 8 syringe kit030402550
 1 syringe 3mL030402051

Paint-On Dental Dam
 3 syringe kit404210
 1 syringe 3mL404201

Dry Bond 10 mL7551

Cerinate® Shade Modification Custom Kit (4 Shades)
033909950

(1 g syringes)
 Modifier White
 Modifier Yellow
 Modifier Dark Yellow
 Modifier Orange
 Modifier Light Brown
 Modifier Dark Brown
 Modifier Grey
 Modifier Dark Grey
 Modifier Blue
 Modifier Green
 Modifier Clear
 Modifier Red
 Modifier Glass
 Modifier Violet

TetraPaque® Opacuers
 Opacuer Dentin
 Opacuer Enamel
 Opacuer Pink
 Opacuer Violet

Tenure® MPB System . .031146000

Ultra Bond® Plus Resin Cement
 Ultra Bond Plus A1 . .032599310
 Ultra Bond Plus B1 . .032599330
 Ultra Bond Plus B0 . .032599350
 Ultra Bond Plus Supreme White
032599380

BLOCK-OUT® by Ultra-Bond® Plus Resin Cement
 BLOCK-OUT A1032491110
 BLOCK-OUT B1032491210
 BLOCK-OUT B0032491310
 BLOCK-OUT Supreme White®
032491410

Ultra Bond® Plus Try-In Paste
 Try-In Paste A1031982510
 Try-In Paste B1031982310
 Try-In Paste Neutral . .031982710
 Try-In Paste White . .031982810

BLOCK-OUT® by Ultra-Bond® Plus Try-In Paste
 BLOCK-OUT Try-In Paste A1
031982400
 BLOCK-OUT Try-In Paste B1
031982100
 BLOCK-OUT Try-In Paste B0
031982300
 BLOCK-OUT Try-In Paste
 Supreme White® . . .031982500

LUMINEERS® Impressions PVS Material
 Fast Set Heavy Body .030389933
 Fast Set Light Body . .030389939

LUMINEERS Finishing Kit
 Finishing Kit033897100
 CeriSaw Anterior with 11 blades
031336500
 CeriSaw Posterior with 11 blades
031336600
 CeriSander Fine Strips 6 pc
031337510
 CeriSander Ultra Fine 6 pc
031337520

Revitalize™ Supplemental Kit
032390700

To Make Placement Easier, Read These Important Tips Before Sending In a Case

The LUMINEERS® BY CERINATE® program is extremely successful and exciting because it is every dentist's and every patient's dream. You can provide a new smile without shots, without the painful removal of sensitive tooth structure, and without the need for even an aspirin before, during or after the placement of a new, gorgeous LUMINEERS Smile. Listed below are tips for successful placement of LUMINEERS, or as some dentists like to think of it: **"How to prevent remakes!"**

TIPS FOR NEW CUSTOMERS:

- **Pre-Training:** Make sure that you have attended a LUMINEERS course, especially within the past 12 months. While the process itself is simple, you will likely encounter a challenge you haven't had experience with before. A course on the placement of LUMINEERS will help you avoid any initial start-up pitfalls. You will also learn about the most current products and techniques, as these are in a continuous state of updating and refining.
- **Be Selective:** Selecting a case of 6-8 units on well-aligned maxillary teeth is your best bet. Avoid extreme cases (severely stained, overly crooked, large diastemas, gingival recession or missing teeth) until you're more experienced in the placement technique.

TIPS PRIOR TO SENDING IN A CASE:

- **Space:** While the Cerinate LUMINEERS system normally requires no tooth reduction or minimal tooth reduction for maxillary veneering, placing LUMINEERS on mandibular teeth may require their reduction in order to allow space for the Cerinate material. The mandibular anteriors should be prepared at a 45-degree angle to create adequate thickness of the material to prevent fractures. Reduction of mandibular anteriors may also be required when incisal wraps are requested on maxillary LUMINEERS.
- **Staff Training:** Your staff is critical to the successful placement of LUMINEERS. One of your best investments is the training of your assistant in this procedure. Proper preparation of the LUMINEERS, the right sequence of use of the materials, the prevention of pre-polymerization, and the correct mix of the luting agent are all critical parts of your success.
- **Shade:** It is always easier to make a lighter shade darker, but almost impossible to make a darker shade lighter.
- **Single Units:** If at all possible, avoid doing a single LUMINEERS. These are difficult to color-match and maintain. Natural dentition adjacent to the LUMINEERS normally will darken over time. If the patient does bleaching, then they may end up lighter than the LUMINEERS. It may save the patient an expense in the beginning, but it will cause dissatisfaction for the patient later on. If the teeth are harmonious in form, the single laminated tooth without reduction will always be too prominent. Whenever possible, encourage the patient to place multiples of 2 and 4, at a minimum, rather than doing one anterior tooth without any reduction.
- **Good Impressions:** Do you remember how tough your professors were on you in dental school to take good, sharp impressions? It is extremely important that you take a sharp impression because this is what guarantees a great, successful case, start-to-finish. Always allow trays to remain in the mouth for the full amount of time, according to manufacturer's directions.

NOTE: It is best to pour a model from the impression to make sure the gingival margins are sharp. This will save you time having to remake impressions.

- **Materials:** To achieve the highest esthetic value, proper fit and shade matching, the entire LUMINEERS System is required. The system includes Ultra-Bond® Plus Try-In Paste, Shade Modification System by Cerinate®, Ultra-Bond® Plus and Tenure®. Attending a Cerinate procedures presentation is highly recommended to ensure proper use of the LUMINEERS System.

TIPS FOR PLACEMENT:

- **Loose Fit:** When you receive your case back, note that when placed on the stone model, LUMINEERS will have a loose fit to allow for the restorative.
- **Try-In:** It is always best to try in LUMINEERS with the Ultra-Bond Plus Try-In Paste to preview shades and choose the most natural, translucent appearance. This adds greatly to patient acceptance. Use of the Clear Shade is **NOT** recommended on LUMINEERS because it allows the unwanted color of the underlying tooth to show through and will not produce the desired shade. Instead use A1, B1, etc., and almost never use Clear. Ultra-Bond Plus Try-In Paste is a must for patient satisfaction and acceptance.
- **Placing LUMINEERS Over Porcelain Crowns with Metal Margins:** It is essential to use 4-power magnification and a small bur to remove the metal so there is at least 1 mm of space between the LUMINEERS and the metal. This will allow for application of either TetraPaque® or Virtuoso® Flowable to fill that area and make it look natural again.
- **Placing LUMINEERS Over Pre-Existing Restorations:** Whenever possible, it is best to place LUMINEERS on all units of a pre-existing bridge to get the most satisfactory result. It is generally impossible to achieve a correct shade match when veneering one unit of a multi-unit restoration. Use of the Shade Modification System by Cerinate is most helpful. It is important to know how to prepare all the surfaces in these types of cases. Again, this is where a LUMINEERS Placement Course can make the difference in long-lasting, beautiful restorations.
- **Occlusion—Check Occlusion:** Failing to check occlusion and not taking steps to adjust occlusion properly is one of the most common reasons for chipping or fracture. **Never touch occlusion until after the LUMINEERS are securely bonded with Ultra-Bond and Tenure.** Then, adjust occlusion to remove all pre-maturities in centric, lateral excursion and anterior disclusion. The most frequent cause of fracture and failure of LUMINEERS is due to trauma from malocclusion. It is easily avoidable if you take the time. Remember that placing LUMINEERS is quick and straight-forward, but checking occlusion is the final step you need to take to make sure the restorations you just placed are going to last. This is one of the important topics that is covered when you attend a LUMINEERS course.

To achieve the greatest degree of success, we recommend you attend a
Cerinate Smile Design Workshop in a city near you.
Call 1-(800) 445-0345 to register or if you have further questions on technique.

FREE PRODUCTS! Tell us about your practice by completing a quick online survey, and receive free Den-Mat samples and information. Visit www.denmat.com/customersurvey today!