

# BONDING CERAMIC VENEERS

## LAMINATE PREPARATION

Make sure the porcelain veneers have been properly etched and cleaned.

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Apply silane after etching of porcelain or as soon as you receive the porcelain veneers. DO NOT try the etched porcelain on the model or in the mouth before silanization.

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Silane the veneers using a two part silane.

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Do not allow silane to reach the facial surface of the veneer. The method of application of silane is dictated by the types of solvent used in silane.

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Try silanated veneers on the cast and next on teeth.

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Use Bite-X to identify the seating interferences if the veneer does not fit. All adjustments must be done on the tooth. DO NOT adjust the inside of the veneer.

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Do not use hydrofluoric acid to re-etch the veneers.

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An over-etched laminate has lower bond strength to the luting composite resin.

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Place an appropriate shade of luting resin in laminates.

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Do not use shaded try-in paste to try in the veneers. Studies have shown lack of consistency between the colored try-in paste and that of luting resin.

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Try-in veneers on the teeth with resin in place.

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Examine:

If color is desirable, remove, clean with acetone, and proceed to step #16. If the color is not desirable, remove veneers, wipe out resin and select another shade.

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If necessary, use appropriate shades of tints to modify the shade and enhance the esthetic outcome.

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Clean try-in composite from inside veneers with acetone using two separate beakers.

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If try-in resin has partially polymerized, place veneers, etched side down on a piece of 2 x 2 gauze, in a glass beaker of acetone and place in ultrasonic.

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It is not necessary to re-salinate the veneers. Apply a very thin layer of porcelain bonding resin inside the veneer followed by a copious amount of the appropriate shade of luting resin. Place the loaded veneers under the cover. Note: Load 2 veneers at one time. Start with #8 and #9

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**Mouth Preparation for Bonding**

Clean the prepared teeth with "oil-free" pumice. Avoid subgingival pumicing.

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Isolate #8 and #9 with two pieces of shim stock. The shim stock must remain in place until etching and priming of teeth 8 and 9 is completed.

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Etch enamel and dentin for 30 seconds, rinse thoroughly for 10 seconds.

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Use a gentle blast of air to remove the excess water. Do not dry the teeth. Post-operative sensitivity as the result of over-drying has been reported in the literature.

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If the etched teeth are accidentally over-dried, moisten teeth with water.

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Use a 4th generation dentin bonding agent on both enamel and dentin. Paint on 4 to 5 coats of dentin bonding agent. Remove the excess solvent with a gentle flow of air. Light-cure for 10 seconds. Next remove the shim stock.

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Apply a very thin coat of bonding resin (known as bonding agent or D/E resin) and remove the excess with a gentle stream of oil-free air. The unfilled resin used on the tooth contains HEMA.

DO NOT CURE the unfilled resin placed on the tooth.

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With All-Bond 3, use 2 coats of Primer A & B, remove the excess with a gentle stream of air and light-cure for 10 seconds. No D/E resin or bonding resin is used with All-Bond 3.

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With patient in a supine position, carefully place the veneers on the two centrals. DO NOT completely seat one veneer at a time.

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Gently guide the two veneers into place. Do not use hard finger pressure. DO NOT rock the veneers once they are in place.

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Make sure that excess resin appears at margins. If not, remove veneers and add resin.

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Hold veneers lightly in position and cure for 3 seconds each. Keep the two veneers together with light finger pressure during the curing.

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It is critical to remove the excess resin from the distal of the bonded veneer. This excess will interfere with seating of the lateral incisors. Use the #12 blade and floss to remove the excess.

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Next use the #12 blade to dislodge the excess resin from the labial of the veneers. It is not necessary to completely remove the excess resin at this time as it may cause dislodgement of the veneers.

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Repeat procedures for two veneers at a time, moving distally from the centrals.

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Finish the margins with a finishing bur, then polish with diamond paste.

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Keep diamond paste off root surface as it will strip cementum and cause post-bonding sensitivity.

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Do not scratch the veneer with the finishing bur. Keep the bur on the margin. Any cured resin on the facial of the bonded veneers must be removed with #12 blade.

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