

3M Unitek

APC™ II

Adhesive Coated Appliance System



Warning: Our metal appliances are stainless steel. Stainless steel contains nickel and chromium. A small percentage of the population is known to be allergic to these metals. If an allergic reaction occurs, direct patient to consult physician.

Warning: Acrylate monomers are known to produce allergic skin reactions in certain sensitive individuals. May cause eye and skin irritation.

Precautions: Avoid eye and skin contact. Wear gloves when handling this material.

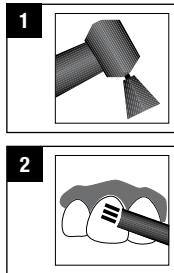
First Aid: Eye contact: Immediately flush with plenty of water. See a physician if irritation persists.

Skin contact: Wash affected area with soap and water. See a physician if irritation persists.

Precaution: Care must be taken when bonding to porcelain crowns or facings as debonding may cause chipping, delamination or breakage of the crown. Do not bond to porcelain crowns that have thin facings or that appear to be compromised. Prepare the porcelain crown to be bonded by using a porcelain primer such as 3M's RelyX™ Ceramic Primer. Follow instructions included with the porcelain primer.

Tooth Preparation

1. Isolate teeth using the NOLA Dry Field System or a combination of retractors, dri-angles and cotton rolls.
2. Prophyl teeth with an oil-free pumice or paste. Rinse with water. Figure 1.
3. Isolate teeth.
4. Air dry thoroughly using oil and moisture-free air source. Figure 2.



Acid Etching

1. If using Transbond™ Plus Self Etching Primer, proceed to Option 3: Priming Surfaces with Transbond™ Plus Self Etching Primer steps below. Otherwise, continue with phosphoric acid etching.
2. Apply Unitek™ Etching Gel (REF 712-039) to teeth surfaces following the instructions provided with the etching gel delivery system. If using other gel etching systems, consult the manufacturer's instructions for proper technique and recommended etching times.

3. Rinse with water.
4. Air dry thoroughly using oil and moisture-free air source.

Priming Teeth

Option 1: Priming Surfaces with Transbond™ XT Primer
For detailed instructions on Transbond XT Primer, please refer to REF 011-519.

Option 2: Priming Surfaces with Transbond™ MIP Moisture Insensitive Primer

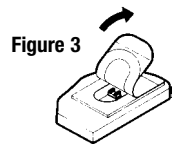
For detailed instructions on Transbond MIP Moisture Insensitive Primer, please refer to REF 011-563.

Option 3: Priming Surfaces with Transbond™ Plus Self Etching Primer

For detailed instructions on Transbond Plus Self Etching Primer, please refer to REF 011-581.

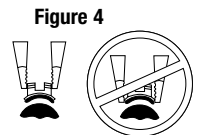
Bracket Placement and Curing

1. Appliance Removal – Determine the tooth to be bonded. Select the adhesive coated appliance and peel back the tab lid of the individual appliance blister. Figure 3.



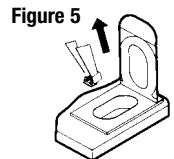
Caution: To protect adhesive from premature curing, do not open blister packs until ready for appliance placement. Blisters cannot be re-sealed.

2. To remove the adhesive coated appliance from the blister, grasp the mesial/distal sides of the appliance with a bracket placement instrument and pull quickly in an upward and straight motion. Figure 4.



Note: The appliance has been pre-oriented in the blister to facilitate placement. Figure 5.

3. Lightly place appliance onto tooth surface, adjust to final position and then press firmly.
4. Gently remove excess adhesive around appliance base.



- Note:** If final positioning will be delayed, cover patient's mouth with a dark colored mask or other article to avoid premature curing by ambient light.
5. Refer to Curing Condition Chart to determine the curing conditions for optimal bond strength. If your curing light does not appear on this chart, please refer to your light manufacturer's instructions for curing conditions.

A technique tip for faster light curing of metal brackets is to position the curing light guide interproximal to two brackets. Figure 6.



However, in order for the bracket to fully cure, both sides of the bracket must be cured.

Precaution: Please follow manufacturer's directions for the handling, proper use and eye protection recommendations when using a curing light.

6. Archwires may be placed immediately after curing the last appliance.

Debonding Procedures

1. Metal brackets may be removed with the Unitek™ Lift-off Debracketing Instrument (REF 444-761). An alternative for removing twin tie-wing brackets is to use a How or similar pliers to squeeze the tie-wings together mesial-distally, and peel the bracket from the tooth.
- 1a. Use general removal technique for debonding molar bonds.
2. Remove remaining adhesive from teeth using low speed handpiece with a tungsten carbide burr.
3. Polish teeth with medium grit pumice.

Debonding Procedures for Ceramic Brackets

To debond Clarity™ Ceramic Brackets, please refer to instruction manual REF 011-542.

To debond Transcend™ Ceramic Brackets, please refer to instruction manual REF 011-586.

Storage and Use

1. Bring to room temperature prior to use.
2. Do not store material in proximity to eugenol-containing products as this may inhibit proper curing of the adhesive.
3. This system is designed to be used at room temperature (20-25°C, 68-77°F). Do not expose to elevated temperature. Do NOT freeze. Storage between 2°-27°C/35-80°F
4. Shelf-life at room temperature is per the expiration date on the individual blister pack lid. Rotate inventory to optimize shelf life.
5. Do NOT expose uncured APC appliances to ambient light for extended periods of time. When not in use, store blisters in original packaging or dispensing unit at room temperature. Do not expose materials to intense light as this may cause the adhesive to cure.

Curing Condition Chart

Curing Condition Chart

Appliance with APC™ PLUS Adhesive	Ortholux™ LED Curing Light (App. 1000 mW/cm ²) (LED)	Plasma Arc (App. 2000 mW/cm ²)	Ortholux™ XT Curing Light (App. 600 mW/cm ²) (Halogen)
Metal Brackets	5 seconds mesial + 5 seconds distal	3 seconds mesial + 3 seconds distal	10 seconds mesial + 10 seconds distal
Ceramic Brackets	5 seconds through the bracket	3 seconds through the bracket	10 seconds through the bracket
Bondable Buccal Tubes	10 seconds mesial + 10 seconds occlusal	6 seconds mesial + 6 seconds occlusal	20 seconds mesial + 20 seconds occlusal



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