

# INSTRUCTIONS FOR **Pad Lock**<sup>®</sup> ORTHODONTIC BONDING SYSTEM

## BONDING PROCEDURE

### TOOTH PREPARATION:

**PROPHYLAXIS:** Using a rotary instrument with a rubber cup or brush, prophylax the enamel surfaces to be bonded with *1st & Final*<sup>®</sup> or plain pumice. Do not use prophylax pastes which contain oil, as they can leave a film that will inhibit the etch. Special attention should be given to the lingual surface and posterior teeth where patient hygiene may be poor and tartar and calculus may be in excess. Rinse thoroughly and dry teeth with oil and moisture-free compressed air.

**ETCH:** Dispense etching agent onto mixing pad. Etchant may be liquid or gel. Isolate the teeth for etching. With a cotton pledget or brush, dab the etching agent onto the entire area to be bonded. Do not rub the etching agent on the enamel. Allow 30 seconds for etching (60 for deciduous teeth). Avoid placing etching agent on soft tissue. A self etching primer may be substituted for conventional phosphoric acid etchant.

**RINSE & DRY:** Rinse thoroughly with water and spray combination to properly cleanse the enamel surface. Rinse each tooth with copious amounts of water for 10 seconds (20 seconds with gel etch) to stop the etching process and remove demineralized particles. A thorough rinsing on each tooth is critical. At this point, do not allow patient to rinse or contaminate the enamel surface. Reisolate and dry teeth thoroughly. The etched area should appear frosty white. If not, re-etch for an additional 20 seconds. If the enamel appears excessively chalky, fluorosed or has been contaminated with saliva, the enamel should be conditioned with *Enhance*<sup>™</sup> Adhesion Booster, *Enhance*<sup>™</sup> L.C. or *Assure*<sup>®</sup> Universal Bonding Resin.

### APPLICATION OF SEALANT:

Dispense a drop or two of sealant resin onto the mixing pad. With a brush, apply a thin uniform layer of sealant to the etched enamel. It is not necessary to cure the sealant at this time. However, if the sealant is cured for 10 seconds (20 seconds for the **PRO SEAL**<sup>®</sup>/L.E.D. **PRO SEAL**<sup>®</sup>) and saliva contamination does occur, the contaminated tooth can be cleaned by dabbing lightly with *Enhance*<sup>™</sup> Adhesion Booster, *Enhance*<sup>™</sup> L.C. or *Assure*<sup>®</sup> Universal Bonding Resin, eliminating the need to re-etch. A cured sealant can also prevent bracket floatation. To further enhance bond strength with some fine mesh brackets, a thin coat of sealant can be painted on the metal bracket base and cured for 10 seconds before applying paste.

### APPLICATION OF PASTE:

Using the **Pad Lock**<sup>®</sup> syringe tip or a spatula, apply the paste and work it into the bracket base. Place bracket on the tooth and press in the desired position. Caution should be taken not to expel all of the paste from beneath a metal bracket. With a metal bracket, position the curing light to shine from the incisal edge and illuminate for 20 seconds and then 10 additional seconds from the gingival, mesial or distal bracket edge. With a ceramic bracket, cure directly through the bracket from the labial for 20 seconds. The light director must be placed as close to the bracket base as possible during curing. Once the paste has been properly cured, an active arch wire can be placed immediately. Note: Curing times depend on the intensity of the curing light. The total curing time can range from 10 seconds to 30 seconds. Please refer to the light manufacturer for recommended curing times.

To check if all peripheral paste flash has been removed, illuminate the area with a black light. Keep the light at least one inch from bracket when checking for flash.

### BONDING A LARGE ACRYLIC APPLIANCE:

- 1.) Prophylax the teeth to be bonded. Acid etch the buccal and lingual surfaces only.
- 2.) Paint a thin coat of sealant on the enamel surfaces (buccal, occlusal and lingual).
- 3.) Paint a thin coat of *Reliance* Plastic Conditioner on the underside of the acrylic appliance.
- 4.) Immediately apply a uniform coat of **Pad Lock**<sup>®</sup> paste to the appliance.
- 5.) Seat appliance and press firmly. Clean excess adhesive flash.
- 6.) Position the curing light to shine on the occlusal surface of first tooth. Illuminate for 20 seconds.  
Repeat for each tooth covered by the appliance.

### BONDING A PLASTIC BRACKET:

With a brush, paint a thin coat of *Reliance* Plastic Appliance Conditioner on the bracket base and allow to dry. Apply a thin coat of *Light Bond*<sup>™</sup> sealant to the primed bracket base and light cure for 10 seconds. Apply **Pad Lock**<sup>®</sup> paste to the bracket base, place on etched, sealed tooth and light cure from the labial for 20 seconds per bracket.

### BRACKET REMOVAL:

To remove **Pad Lock**<sup>®</sup>, use a ligature cutter to grab the adhesive at the bracket interface and peel the bracket from the tooth. The majority of the paste will be removed with the bracket base. **Pad Lock**<sup>®</sup> will fluoresce when illuminated with a black light to expose remnants of composite and insure a complete cleanup. Remaining material can be removed with the **Renew**<sup>™</sup> **Finishing System** Bur and **Renew**<sup>™</sup> **Finishing System** #383 Point.

### GENERAL INFORMATION:

The intensity of curing lights may vary. Some higher intensity lights will require a shorter activation of the paste. Loss of intensity cannot be detected by the naked eye. Dispensed sealant and paste should not be exposed to direct light for any extended period of time as a partial activation may occur. Paste can be applied to brackets in advance but must be shielded from any ambient light (i.e., cover with a box top).

**CAUTION:** Federal law restricts this device to sale or on the order of a dental professional.

**NOTE:** Use of UV, halogen and LED curing lights can be associated with eye damage. The patient, doctor and the assistant should wear properly designed protective eyewear when using these light curing devices.



**TEMPERATURE LIMITATION:** Store refrigerated (36-46 degrees F).

**PRECAUTIONS:** Unpolymerized resins may cause skin sensation in susceptible persons. In case of contact with the skin, wash thoroughly with soap and water. Etching liquids or gels (phosphoric acid) are severe eye and tissue irritants. If accidentally instilled into eye, flush with copious amounts of water and seek medical attention immediately. Contact with other tissues: rinse spill area immediately with copious amounts of water for several minutes. Injury may result if etchant is allowed to remain on the skin or mucosa for extended periods of time.

**WARRANTY:** Reliance Orthodontic Products, Inc. recognizes its responsibility to replace products if proven to be defective. Reliance Orthodontic Products, Inc. does not accept liability for any damages or loss, either direct or consequential, stemming from the use of or inability to use the products as described. Before using, it is the responsibility of the user to determine the suitability of the product for its intended use. The user assumes all risk and liability in connections therewith.