**DENTIN AND ENAMEL**

1. **PREPARE TOOTH SURFACE:** Prepared dentin and enamel surfaces to be bonded should be clean and isolated. Surfaces should be caries free. For abrasion/abrasion Class V preparations, roughen with a diamond bur. We recommend rubber dam where appropriate.

2. **ETCH:** Apply FROST (37% H3PO4) (Clinician’s Choice) onto all tooth preparation surfaces and leave for 15 seconds. Rinse etch from dentin and enamel thoroughly for 5 seconds with firm air/water spray. With a brief air blast, remove all visible water. Leave dentin moist.

3. **SENSITIZE** (Posterior Composite Restorations Only): Re-wet the entire preparation with G5™ All-Purpose Densensitizer (Clinician’s Choice) using a microbrush or cotton pellet. Avoid soft tissue (rinse after application if G5 comes in contact with soft tissue). The dentin should exhibit a glistening appearance. Do not dry.

4. **BOND:** Immediately apply a uniform coat of MPa onto all etched tooth surfaces with an MPa applicator. Brush gently for 10 seconds. Using an air syringe, gently thin adhesive to a uniform glossy coat. Reduce air pressure, and continue drying for 10 seconds. Avoid pooling of adhesive. Surface will look glossy. Light-cure for 20 seconds using a standard light with an output less than 1000mW. Light-cure 10 seconds using a light with an output greater than 1000mW.

5. **RESTORE:** Remove weakened portions of existing composite. Roughen surface with diamond bur and clean composite with FROST (37% H3PO4) (using micro-abrasion/sandblasting also provides superior results). Etch the dentin/enamel adjacent to restoration and all prepared composite surfaces for 10 seconds. Rinse thoroughly for 5 seconds using firm air/water spray and leave damp.

6. **BONDING:** Apply a uniform coat of MPa onto etched surface with an MPa applicator. Lightly brush for 10 seconds. Using an air syringe, gently thin this adhesive to uniform glossy coat and continue drying for 10 seconds. Avoid pooling of adhesive. Surface will look glossy. Light-cure for 20 seconds using a standard light with an output less than 1000mW. Light-cure 10 seconds using a light with an output greater than 1000mW.

7. **REPAIR:** Build incrementally with an appropriate composite following manufacturer’s instructions.

**COMPOSITE REPAIR**

1. **PREPARE SURFACE:** Remove weakened portions of existing composite. Roughen surface with diamond bur and clean composite with FROST (37% H3PO4) (using micro-abrasion/sandblasting also provides superior results).

2. **ETCH:** Etch the dentin/enamel adjacent to restoration and all prepared composite surfaces for 10 seconds. Rinse thoroughly for 5 seconds using firm air/water spray and leave damp.

3. **BONDING:** Apply a uniform coat of MPa onto etched surface with an MPa applicator. Lightly brush for 10 seconds. Using an air syringe, gently thin this adhesive to uniform glossy coat and continue drying for 10 seconds. Avoid pooling of adhesive. Surface will look glossy. Light-cure for 20 seconds using a standard light with an output less than 1000mW. Light-cure 10 seconds using a light with an output greater than 1000mW.

4. **RESTORE:** Build incrementally with an appropriate composite following manufacturer’s instructions.

**CAUTION:** U.S. Federal law restricts this device to sale by, or on the order of, a dentist.

**M.P.A. PRECAUTIONS**

1. Resins can be sensitizing. Dental personnel should avoid repeated contact of uncured dental resin with skin. Do not use on patients with a known sensitivity to acrylics or other resins.

2. Remember that light-activated bonding agents are sensitive to ambient light. Bottle caps should be replaced following use to prevent unwanted polymerization or evaporation. We recommend covering bottle tip with 2 x 2 gauze if left exposed to ambient light for long periods of time during the procedure.

3. Adhesive resins should be refrigerated for long-term storage to maintain shelf life.

4. Applicator tips should not be re-used to prevent cross-contamination.

5. To optimize bond strength, use oil-free, moisture-free air.

**INSTRUCTIONS FOR USE**

**MPA Indications**

MPa is an adhesive resin used with a total-etch procedure with the following substrates:

- *Dentin and Enamel*
- *Metals*
- *Composite Repair*

**DENTIN AND ENAMEL**

1. **PREPARE TOOTH SURFACE:** Prepared dentin and enamel surfaces to be bonded should be clean and isolated. Surfaces should be caries free. For abrasion/abrasion Class V preparations, roughen with a diamond bur. We recommend rubber dam where appropriate.

2. **ETCH:** Apply FROST (37% H3PO4) (Clinician’s Choice) onto all tooth preparation surfaces and leave for 15 seconds. Rinse etch from dentin and enamel thoroughly for 5 seconds with firm air/water spray. With a brief air blast, remove all visible water. Leave dentin moist.

3. **SENSITIZE** (Posterior Composite Restorations Only): Re-wet the entire preparation with G5™ All-Purpose Densensitizer (Clinician’s Choice) using a microbrush or cotton pellet. Avoid soft tissue (rinse after application if G5 comes in contact with soft tissue). The dentin should exhibit a glistening appearance. Do not dry.

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5. **RESTORE:** Remove weakened portions of existing composite. Roughen surface with diamond bur and clean composite with FROST (37% H3PO4) (using micro-abrasion/sandblasting also provides superior results). Etch the dentin/enamel adjacent to restoration and all prepared composite surfaces for 10 seconds. Rinse thoroughly for 5 seconds using firm air/water spray and leave damp.

6. **BONDING:** Apply a uniform coat of MPa onto etched surface with an MPa applicator. Lightly brush for 10 seconds. Using an air syringe, gently thin this adhesive to uniform glossy coat and continue drying for 10 seconds. Avoid pooling of adhesive. Surface will look glossy. Light-cure for 20 seconds using a standard light with an output less than 1000mW. Light-cure 10 seconds using a light with an output greater than 1000mW.

7. **REPAIR:** Build incrementally with an appropriate composite following manufacturer’s instructions.

**WARRANTY:** Clinician’s Choice Dental Products Inc. will replace MPa, free of charge, if proven to be defective and when stored according to the manufacturer’s specifications. Clinician’s Choice Dental Products Inc. does not accept liability for any loss or damage, direct or consequential, arising out of the use of or the inability to use this product. Before using, the user shall determine the suitability of the product(s) for its intended use and the user assumes all risk and liability whatsoever in connection therewith.

**CAUTION:** U.S. Federal law restricts this device to sale by, or on the order of, a dentist.
1. Identification of Substance/Preparation and Company/Undertaking

Product Name: MPa (Maximum Performance adhesive)
Product Description: Maximum Performance adhesive is a single component resin bonding system used for direct restorations. MPa is a dental adhesive that is used with a total-etch technique (using FROST 37% H₃PO₄) as treatment dictates. The light-cure bonding agent is 7.5% filled and radiopaque with an ethyl alcohol solvent carrier. MPa will cure with most curing lights including LEDs.

2. Composition/Information on Ingredients

| Ethyl Alcohol | 000064-17-5 | C2H5OH | 200-578-6 | F+, R11 | 17 |
| Methacrylic Acid | 000079-41-4 | C₄H₆O₂ | 201-204-4 | C, Xn, R21/22, R34, K35 | 6 |
| 2-hydroxyethyl Methacrylate | 000868-77-9 | C₇H₁₀O₃ | 212-782-2 | Xi, R43 | 16 |

3. Hazards Identification

<table>
<thead>
<tr>
<th>P</th>
<th>S</th>
<th>Substances</th>
<th>R-phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>P</td>
<td>Ethyl Alcohol</td>
<td>F+; R11</td>
</tr>
<tr>
<td>C</td>
<td>Xi</td>
<td>Methacrylic Acid</td>
<td>C, Xn, R21/22, R34, K35</td>
</tr>
<tr>
<td>Xi</td>
<td>R43</td>
<td>2-hydroxyethyl Methacrylate</td>
<td>Xi, R43</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. Skin: Wash with soap and water. Get medical attention if irritation develops or persists.

**Ingestion:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. firefighting measures

**Fire-fighting Procedures:** General: Evacuate all personnel; use protective equipment for fire-fighting. Use self-contained breathing apparatus when the product is involved in fire.

**Fire-fighting Equipment:** Foam, dry chemical, carbon dioxide (CO₂)

6. Accidental Release Measures

**Small Spill:** Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

**Large Spill:** Absorb with inert, damp non-combustible material, then flush area with water.

7. Handling and Storage

**Handling:** Keep away from heat, sparks, and flame.

**Storage:** Refrigerate (2-8°C / 36-46ºF)

8. Exposure Controls/Personal Protection

**Eyes and Face:** Wear eye protection.

**Skin:** S36/37: Wear suitable protective clothing and gloves.

**Respiratory:** S51: Use only in well-ventilated areas.

9. Physical/Chemical Properties

**Physical State:** Liquid

**Odor:** Acrylic, pungent

**Appearance:** Light yellow opaque resin

10. Stability and Reactivity

**Stability:** Stable when stored and handled under recommended conditions. Polymerization: Polymerization occurs when exposed to visible light, ultraviolet light or extreme heat. Conditions to Avoid: Avoid light exposure.

11. Toxicological Information

**Eye Effects:** May cause serious damage. **Skin Effects:** May cause slight irritation.

12. Ecological Information

**Environmental Data:** Stable when stored and handled under recommended conditions.

13. Disposal Considerations

**Disposal Method:** Dispose of in compliance with governmental regulation (EC 1915/2002).

14. Transport Information

**Road and Rail (ADR/RID):** Air (ICAO/IATA): Vessel (IMO/IMDG):

**Hazard Class:** 3 **UN/NA Number:** 1170 **Primary Hazard Class/Division:** 3 **Special Provisions:** 144, 330

15. Regulatory Information

**European Community:** EEC Label Symbol and Classification

<table>
<thead>
<tr>
<th>R-phrase</th>
<th>Classification</th>
</tr>
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<tbody>
<tr>
<td>R11</td>
<td>Highly Flammable</td>
</tr>
<tr>
<td>R36/38</td>
<td>Irritating to eyes and skin</td>
</tr>
<tr>
<td>R21/22</td>
<td>Harmful in contact with skin and if swallowed</td>
</tr>
</tbody>
</table>

16. Other Information:

**Relevant R-Phrases:** R11: Highly Flammable R21/22: Harmful in contact with skin and if swallowed R35: Causes severe burns R43: May cause sensitization by skin contact