INSTRUCTIONS FOR USE

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. DENTIN AND ENAMEL
   • Dentin and Enamel
   • Metals
   • Composite Repair

4. BOND:
   Apply a uniform coat of MPa Direct onto etched tooth surfaces with an MPa Direct applicator brush gently for 10 seconds. Using an air syringe, gently thin adhesive to a 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.

5. COMPOSITE MATERIAL:
   Apply your choice of composite material according to manufacturer’s recommendations. A flowable composite may be used for a super-adaptive initial layer in Class I and II restorations. Use a paste composite for the last 2-3mm layer. For surfaces subject to minimal wear such as Class V’s, a flowable composite may be used as a final surface. Follow manufacturer’s directions for use.

METALS

1. PREPARE METAL SURFACE:
   Micro-abrade (sandblast) metal surface.
   PLEASE NOTE: Bond strength to metal is determined by metal alloy and a superior surface preparation technique.

2. CLEAN/ETCH:
   Metal surface should be cleaned with FROST (37% H3PO4) for 10 seconds followed by a 5 second rinse with firm air/water spray. Dry thoroughly.

3. BOND:
   Apply a puddle coat of MPa Direct onto etched surface with an MPa Direct applicator. Using an air syringe, gently thin adhesive to a 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:
   Composite resin of choice may now be placed following manufacturer’s directions for use. Begin with 0.5-1.5mm initial layer. Cure, then continue building in 2-3mm incremental layers.

PLEASE NOTE: When metal opaquing or opaquing of dark dentin is necessary, use a thin layer (0.2-0.5mm) of the appropriate shade of Opaquer and light-cure before placement of composite resin.

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 Direct onto etched surface with an MPa Direct applicator. Lightly brush for 10 seconds. Using an air syringe, gently thin 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 directions.

WARRANTY: Clinician’s Choice’ Dental Products Inc. will replace MPa Direct, 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 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 Direct - Maximum Performance adhesive
Product Description: Dental Bonding Resin
Manufacturer: CLINICIAN’S CHOICE Dental Products
Manufacturer Address: London, ON, Canada, N6A 1M6
Emergency Telephone: 1-800-265-3444

2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>EINECS</th>
<th>Classification</th>
<th>Content</th>
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</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>000064-17-5</td>
<td>200-578-6</td>
<td>F+; R11</td>
<td>17</td>
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<tr>
<td>Methacrylic Acid</td>
<td>000079-41-4</td>
<td>201-204-4</td>
<td>C, Xn, R21/22, R34, R35</td>
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<td>2-hydroxyethyl Methacrylate</td>
<td>000868-77-9</td>
<td>212-782-2</td>
<td>Xi, R43</td>
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3. Hazards Identification

<table>
<thead>
<tr>
<th>R-Phrase</th>
<th>Hazard Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>R11</td>
<td>Highly Flammable</td>
</tr>
<tr>
<td>R21/22</td>
<td>Harmful in contact with skin if swallowed</td>
</tr>
<tr>
<td>Xn</td>
<td>Irritant</td>
</tr>
<tr>
<td>Xi</td>
<td>Irritating to eyes and skin</td>
</tr>
<tr>
<td>C</td>
<td>Corrosive</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 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

**Personal Protective Equipment**
- Eyes and Face: Wear eye protection.
- Skin: S38/39; Wear suitable protective clothing and gloves.
- Respiratory: S51; Use only in well-ventilated areas.

**Eyes:**
- Wear eye protection.

**Skin:**
- S36/37: Wear suitable protective clothing and gloves.
- S53/54: Wear protective gloves and clothing.

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:**

14. Transport Information

**Road and Rail (ADR/RID):**
- Hazard Class: 3
- UN/NA: 1170
- Special Provisions: 144, 330

**Vessel (IMDG):**
- UN/NA: 1170
- Special Provisions: 144, 330

15. Regulatory Information

**European Community**
- EEC Label Symbol and Classification
  - “F” – Highly Flammable
  - “X” – Irritant
  - “C” – Corrosive

16. Other Information:

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