

# Renew MDP

## One Component Self Etch Bonding Agent



**Product Description :** Renew MDP is a light-cured single-component dental bonding agent that combines etching, priming and bonding in one bottle. It is an ethanol-water based dental adhesive containing 10-Methacryloyloxydecyl Dihydrogen Phosphate (10-MDP) a functional monomer which helps in bonding to dentin and cut and un-cut enamel. Renew MDP has been designed to be fully compatible with light-cured, self-cured and dual-cured composite materials. Renew MDP can be used for the bonding of both direct and indirect restorations and may be used with or without phosphoric acid etchant.

**Composition :** BisGMA, Urethane Dimethacrylate, Triethylene Glycol Dimethacrylate, 2-Hydroxyethyl Methacrylate, Camphorquinone, Dimethyl Amino Ethyl Methacrylate, Ethyl 4-dimethyl Amino Banzoate, Ethanol, Water, 10-Methacryloyloxydecyl Dihydrogen Phosphate, Water, Butylated Hydroxy Toluene

### Indications for use :

1. Light cure bonding agent for dual, light and self curing composites, compomers and ormocers.
2. Bonding of indirect restorations and endodontic posts.
3. Intraoral repair.
4. Desensitizer.

**Contraindications :** Patients with a history of hypersensitivity to methacrylate monomers. Do not use as a pulp capping agent. Do not use eugenol-containing materials prior to the use of Renew MDP, since the eugenol can retard the curing process.

### Precautions :

1. **Safety Precautions :** The material contains certain methacrylates and other ingredients which may cause irritation or sensitivity in some individuals. If contact occurs with skin, immediately wash with soap and water. Improper use may result in allergic reaction or skin and tissue irritation. If this occurs, discontinue use of this product. Protective gloves and eye wear should be worn while handling this product. If contact occurs with eye. Flush immediately with large volumes of water and seek medical attention immediately. Do not expose materials to elevated temperatures or intense light.

### 2. Material Precautions :

- ◆ **Renew MDP** is a light-curable material. Use it Immediately once it is dispensed in the mixing well. Prolonged exposure to air and light may lead to solvent evaporation and thickening of the adhesive.

### INSTRUCTIONS FOR USE :

#### 1. Direct Restorations :

**SELF-ETCHING TECHNIQUE :** Prepare cavity. Wash thoroughly with water spray. Use an absorbent pellet or high volume evacuation (HVE) for 1-2 seconds, to remove excess water (do not desiccate).

**SELECTIVE - ETCHING TECHNIQUE :** Prepare cavity. Wash thoroughly with water spray. Etch enamel using an etchant for 15 seconds. Rinse thoroughly. Remove excess water by blotting the surface with an absorbent pellet or high volume evacuation (HVE) for 1-2 seconds, leaving the preparation visibly moist.

- a. Dispense 1-2 drops of Renew MDP into a clean well. Replace the cap onto the bottle promptly to avoid evaporation of solvent.
- b. Apply two separate coats of Renew MDP, scrubbing the preparation with a microbrush for 10-15 seconds per coat. Do not light cure between coats.
- c. Evaporate excess solvent by thoroughly air-drying with an air syringe for at least 10 seconds, there should be no visible movement of the adhesive. The surface should have a uniform glossy appearance; otherwise, apply an additional coat of Renew MDP and repeat Steps 2 and 3.
- d. Light cure for 20 seconds.

e. Continue with placement of the restorative material according to the manufacturer's instructions.

#### 2. Indirect Restorations

##### Tooth Preparation :

**SELF-ETCHING TECHNIQUE :** Prepare cavity. Wash thoroughly with water spray. Use an absorbent pellet or high volume evacuation (HVE) for 1-2 seconds, to remove excess water (do not desiccate).

**SELECTIVE - ETCHING TECHNIQUE :** Prepare cavity. Wash thoroughly with water spray. Etch enamel using an etchant for 15 seconds. Rinse thoroughly. Remove excess water by blotting the surface with an absorbent pellet or high volume evacuation (HVE) for 1-2 seconds, leaving the preparation visibly moist.

- a. Dispense 1-2 drops of Renew MDP into a clean well. Replace the cap onto the bottle promptly to avoid evaporation of solvent.
- b. Apply two separate coats of Renew MDP, scrubbing the preparation with a microbrush for 10-15 seconds per coat. Do not light cure between coats.
- c. Evaporate excess solvent by thoroughly air-drying with an air syringe for at least 10 seconds, there should be no visible movement of the adhesive. The surface should have a uniform glossy appearance; otherwise, apply an additional coat of Renew MDP and repeat Steps 2 and 3.
- d. Light cure for 10 seconds.
- e. Continue with cementation.

### Priming of Metal, Zirconia, Alumina, Composite and Post Restorations :

1. Prepare the surface of the restoration according to instructions provided by the laboratory or the manufacturer. (e.g., particle abrasion).

**NOTE :** Do not clean surfaces with phosphoric acid before application of adhesive.

2. Apply 1 coat of Renew MDP and air dry to remove excess solvent. Light cure for 10 seconds.

### Priming of Porcelain (silica-based) or Lithium Disilicate Restorations :

1. Since different ceramics require different surface treatments, contact the laboratory or manufacturer for proper internal surface treatment instructions.
2. Apply 1 coat of Renew MDP and air dry to remove excess solvent. Light cure for 10 seconds. For porcelain veneers it is strongly recommended to use silane X.

### 3. Desensitization/Sealing of Tooth

#### a.) Prepared tooth surface :

Prepare cavity. Wash thoroughly with water spray. Use an absorbent pellet or high volume evacuation (HVE) for 1-2 seconds, to remove excess water (do not desiccate).

1. Dispense 1-2 drops of Renew MDP into a clean well. Replace the cap onto the bottle promptly to avoid evaporation of the solvent.
2. Apply two separate coats Renew MDP, scrubbing the preparation with a microbrush for 10-15 seconds per coat. Do not light cure between coats.
3. Evaporate excess solvent by thoroughly air-drying with an air syringe for at least 10 seconds, there should be no visible movement of the adhesive. The surface should have a uniform glossy appearance; otherwise, apply an additional coat of Renew MDP and repeat Steps 2-3.
4. Light cure for 10 seconds.
5. Continue with provisionalization procedure.

#### b.) Uncut tooth surface :

1. Clean root surface/uncut tooth by scrubbing with Prevest DenPro's micron dentine conditioner.
2. Rinse with water and blot dry with an absorbent pellet.
3. Dispense 1-2 drops of Renew MDP into a clean well. Replace the cap onto the bottle promptly to avoid evaporation of the solvent.
4. Apply two separate consecutive coats of Renew MDP, scrubbing the preparation with a microbrush for 10-15 seconds per coat. Do not light cure between coats.
5. Evaporate excess solvent by thoroughly air-drying with an air syringe for at least 10 seconds; there should be no visible movement of the adhesive. The surface should have a uniform glossy appearance
6. Light cure for 10 seconds.
7. Remove the oxygen-inhibited layer with an alcohol-moistened cotton pellet or gauze.

#### 4. Intraoral Repairs :

1. Roughen any surface that will be bonded. Rinse and air dry.
2. Any porcelain or lithium disilicate surfaces present should be treated with hydrofluoric acid for the specified time and handled according to the manufacturer's instructions. Apply a silane X primer (e.g., PORCELAIN PRIMER) for optimum bond strength and durability of the interface.

**NOTE :** SilaneX may be used on exposed metal and zirconia surfaces prior to application of Renew MDP.

3. Dispense 1-2 drops of **Renew MDP** into a clean well. Replace the cap onto the bottle promptly to avoid evaporation of solvent.
4. Apply 1 coat of **Renew MDP** to the repair site and air dry to remove excess solvent. Light cure for 10 seconds.

5. Proceed with composite layering and finishing.

#### Endodontic Post Bonding :

1. Prepare post space according to post manufacturer's instructions.
2. **OPTIONAL :** Etch post space for 15 seconds. Rinse thoroughly.
3. Remove excess water with a brief burst of air. Using a paper point, remove any pooled water from the post space.
4. Scrub 2 coats of **Renew MDP** into the canal.
5. Blot the canal dry with a paper point; repeat with a new paper point until the paper point returns dry from the canal. This step is important to make sure that there is no interference in complete seating of endodontic post.
6. Dry thoroughly for approximately 10 seconds to remove excess solvent.
7. Light cure directly over the canal for 20 seconds.
8. Coat the post with **Renew MDP**, air dry and light cure for 10 seconds.
9. Proceed with cementation according to cement manufacturer's instructions.

**Storage conditions :** Store at temperature between 10°C to 24°C. Close the cap carefully after use. Keep away from moisture. Shelf life not affected after opening if stores in a cool dry place.

**Shelf Life :** 2 years from the date of manufacturing.

#### Presentation :

##### Regular Pack

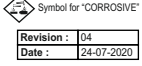
Ref: 10016

1 x 5ml Bottle, 1 x Instruction manual.

**Disposal conditions :** To be disposed off based on the prevailing rules of the country in which it is used.

#### Prevest DenPro Limited

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Made in India



Symbol for "BATCH CODE"



Symbol for "USE BY"



Symbol for "NON STERILE"



Symbol for "KEEP DRY"



Symbol for "CONSULT INSTRUCTION FOR USE"



Symbol for "CATALOGUE NUMBER"



Symbol for "DO NOT USE IF PACKAGE IS DAMAGED"



Symbol for "KEEP OUT OF THE REACH OF CHILDREN"



Symbol for "MANUFACTURER NAME & ADDRESS"



Symbol for "TEMPERATURE LIMITATION"



Symbol for "KEEP AWAY FROM SUNLIGHT"



Symbol for "FLAMMABLE"

The material has been developed solely for professional dental use. Application should be carried out strictly according to the instruction for use. Liability cannot be accepted for damages resulting from failure to observe the instructions of the stipulated area of applications. The user is responsible for testing the material for its suitability and use for any purpose not explicitly stated in this instruction sheet. Description and data constitute no warranty of attributes and are not binding.