

INSTRUCTION FOR USE

Ortho Bonding (Light-Cure Orthodontic Adhesive System)

ORTHODENT® Ortho Bonding Kit is a complete light-cure orthodontic adhesive system designed for reliable bonding of metal and ceramic orthodontic brackets to etched enamel surfaces. The kit includes phosphoric acid etchant, light-cure primer, light-cure adhesive paste, and disposable application accessories.

The system provides high bond strength, excellent handling characteristics, and easy removal of excess material.

COMPOSITION

Ortho Adhesive Paste

- Bis-GMA and/or UDMA resin matrix
- Silanated inorganic fillers
- Camphorquinone photoinitiator
- Stabilizers and pigments

Ortho Primer

- Methacrylate monomers
- Photoinitiators
- Stabilizers

Ortho Etchant

- Phosphoric Acid Gel (approximately 37%)

INTENDED USE

For bonding orthodontic brackets to enamel using a light-curing adhesive technique.

INDICATIONS

ORTHODENT® Ortho Bonding Kit is indicated for:

- Bonding metal orthodontic brackets
- Bonding ceramic orthodontic brackets
- Direct orthodontic bracket placement on etched enamel surfaces

CONTRAINDICATIONS

Do not use:

- In patients with known hypersensitivity to methacrylates or phosphoric acid
- On teeth with untreated gingival or periodontal disease
- On contaminated or inadequately isolated tooth surfaces
- For any application other than orthodontic bracket bonding

Note: Pregnancy is not generally considered a contraindication to dental adhesive use. Clinical judgment should be exercised according to individual patient circumstances.

WARNING

- The etchant contains phosphoric acid and may cause eye and skin irritation.
- Primer and adhesive contain methacrylate monomers and may cause allergic skin reactions.
- Primer is flammable; keep away from heat and open flames.
- Avoid contact with eyes, skin, and oral soft tissues.
- For professional dental use only.
- Keep out of reach of children.

PRECAUTIONS

- Use gloves, mask, and protective eyewear.
- Isolate teeth from saliva and moisture.
- Keep all light-sensitive materials tightly closed when not in use.

- Avoid prolonged exposure to ambient light.
- Use only with standard orthodontic brackets from reputable manufacturers.
- If irritation or allergic reaction occurs, discontinue use and seek medical advice.

METHOD OF USE

1. Tooth Surface Preparation

- Clean the enamel surface thoroughly using non-fluoridated pumice or prophyl paste.
- Rinse thoroughly.
- Dry with oil-free, moisture-free air.
- Isolate the tooth and maintain a dry field.

2. Etching

- Apply ORTHODENT® Ortho Etchant evenly to the enamel surface.
- Leave in place for 50–60 seconds.
- Rinse thoroughly with water.
- Dry completely.

Expected Result: The etched enamel should appear chalky white. If not, repeat the etching procedure.

3. Primer Application

- Apply a thin layer of ORTHODENT® Ortho Primer to the etched enamel using a microbrush.
- Apply a thin layer of primer to the bracket base (wet-on-wet technique).
- Do not light cure the primer unless specifically preferred by the clinician.

4. Adhesive Application

- Apply a small amount of ORTHODENT® Adhesive Paste to the bracket base.
- Position the bracket on the tooth.
- Apply gentle pressure for 5–10 seconds.
- Remove excess adhesive from around the bracket.

5. Light Curing

- Metal Brackets: Cure for 10 seconds from the mesial side and 10 seconds from the distal side.
- Ceramic Brackets: Cure from the facial surface for 10 seconds.

Use a high-intensity LED curing light for optimal polymerization.

ADVERSE EFFECTS

Potential adverse effects include:

- Eye or skin irritation
- Soft tissue irritation
- Allergic reactions to methacrylate components
- Transient tooth sensitivity

STORAGE CONDITIONS

- Store at 2–25°C
- Keep away from direct sunlight and heat sources
- Close bottle tightly immediately after use
- Do not freeze

PRESENTATION

Kit Contents

REF: PL-0345

- Ortho Adhesive Paste – 3 × 3.5 g Syringes , Ortho Primer – 1 × 5 mL Bottle, Ortho Etchant – 1 × 2.5 mL Syringe, Disposable Applicator Brushes – 40 pcs, Double-Ended Mixing Spatulas – 2 pcs, Instructions for Use


SHELF LIFE

3 years from the date of manufacturing.

DISPOSAL

Dispose of according to local regulations and facility guidelines.

CONTACT DETAILS

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Failure to comply with the specified storage conditions may alter the working characteristics of the material and reduce its shelf life. The manufacturer is not responsible for any loss of quality resulting from non-compliance with the specified conditions for transportation, storage, and use of this product. The user assumes full responsibility for using the material for any purposes other than those specified by the manufacturer.


This material is intended solely for professional dental use. Application must be carried out strictly according to the instructions for use. The manufacturer accepts no liability for damages resulting from failure to follow the provided instructions or for use beyond the stipulated applications. The user is responsible for assessing the material's suitability for any purpose not explicitly stated in this instruction sheet. The descriptions and data provided do not constitute a warranty of attributes and are not legally binding.

This product is specially formulated for use in dentistry and to be used by qualified dental personnel


 Symbol for "CAUTION"  Symbol for "CATALOGUE NUMBER"

 Symbol for "KEEP AWAY FROM SUNLIGHT"

 Symbol for "KEEP OUT OF THE REACH OF CHILDREN"

 Symbol for "DO NOT USE IF PACKAGE IS DAMAGED"


 Symbol for "KEEP DRY"  Symbol for "FLAMMABLE MATERIAL"


 Symbol for "CONSULT INSTRUCTION FOR USE"

 Symbol for "MANUFACTURER NAME & ADDRESS"

 Symbol for "TEMPERATURE LIMITATION"

 Symbol for "MEDICAL DEVICE"  Symbol for "NON STERILE"

 Symbol for "BATCH CODE"

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