

# MerFill BOND

## LIGHT-CURING SINGLE-COMPONENT BONDING AGENT

**F&A MEDICAL**

Vintergata 19, 3048, Drammen, Norway

info@famedical.net

www.famedical.net



MerFill BOND is a universal self-priming dental adhesive agent designed to bond the composites materials to enamel and dentin.

### •• INDICATIONS

- A bonding agent for composite (including flowable) restorations;
- Adhesive cavity varnish under amalgam restorations;
- Protective varnish for hypersensitive tooth areas.

### •• MERFILL BOND POSSESSES WITH THE FOLLOWING OUTSTANDING FEATURES

- Simple and fast application technique.
- Versatility – will bond to dentin and enamel margins.
- Compatible with all light-cured restorative materials and cements.
- Long shelf-life with no need for refrigeration.
- Economical in use.
- Outstanding biocompatibility. MerFill BOND does not contain acetone or other pulp irritating compounds;
- MerFill BOND possesses the very high bond values of any single-component resin bonding system. MerFill BOND bond values to etched dentin after 24 hours are in the high 30 – 50 MPa range depending on the protocol of individual laboratories.
- Contains the natural resins providing an elastic quality to all composition, which creates a hybrid layer; that is able to flex. A flexible hybrid layer reduces the risk of microleakage by creating the layer that; is not rigid and resistant to fracture; the natural resins contain also the natural surfactants, which. allow for easier penetration of resins into the dentin tubules.
- The special co-polymerized solvent in combination with very small amount of ethyl alcohol carrier; facilitates the problem of quick evaporation of unwanted solvent, allowing simultaneously for excellent penetration of the resin in the dentinal tubule structure.

### •• CONTRAINDICATIONS

- Use for patients with allergy to methacrylates.
- Direct or indirect pulp capping.

### •• PRECAUTIONS

- Eugenol containing materials should not be used in conjunction with MerFill BOND because it may influence on polymerization reaction.

### •• INSTRUCTION FOR USE

**Isolation:** rubber dam is the recommended method of isolation.

**Etching:** apply etching gel by brushing it into the dentin. Extend the application on the enamel margins. Leave on for 15 – 20 seconds.

If a relatively large area of the enamel is involved in the restoration, and in clinical situations where achieving maximum bonding strength to enamel is critical to good retention, the enamel should be thoroughly treated with the etching gel for 20 seconds.

Rinse well, then dry lightly with a stream of air. Do not desiccate the dentin structure.

### •• DENTIN-ENAMEL PRIMER/BONDING AGENT

Apply primer/bonding agent with a brush in a manner similar to the application of the cavity varnish. Make sure the dentin is well wetted. Just placing primer over the dentin may not be enough. Apply one or two consecutive coats of MerFill BOND to etched enamel and dentin. Do not rinse off. Keep the area dry; avoid saliva contamination. Light cure for 10 seconds.

Follow with the application of the light cured restorative material or cement and cure thoroughly. The required curing time may depend on the intensity of the curing light, the thickness of the layer of restorative material or cement, its color and reactivity. Usually a curing time of 40 seconds is enough. Refer to manufacturer's instruction for using the restorative materials.

**•• SPECIAL HINTS**

When restoring Class V cervical lesions, adjacent enamel margins should be beveled and etched in a conventional manner. Prior to etching, dentin and adjacent enamel should be cleaned with an oil-free pumice/water slurry, rinsed and lightly dried.

**•• ADHESIVE VARNISH FOR USE WITH AMALGAM**

Finish preparation in a conventional manner. Rinse and carefully air-dry the prepared cavity, but do not desiccate the dentin structure. Apply MerFill BOND as described for direct restorations. Place and condense amalgam as per usual technique.

**•• REPAIR OF CERAMICS AND FIXING OF VENEERS**

Before applying the adhesive, the ceramic surface must be treated with a ceramic primer based on hydrofluoric acid.

**•• TREATING OF HYPERSENSITIVE CERVICAL AREAS**

Clean cervical area of hypersensitive tooth with prophylaxis paste and rubber cup. Remove prophylaxis paste with water spray. Dry cleaned area with air free of oil or water contamination. Avoid desiccating the dentin. Apply MerFill BOND as described for direct restorations.

**•• WARRANTY**

The manufacturer warrants the quality of manufactured products. The adverse events inflicted by violation of user manual, storage conditions and other events inflicted by non-stipulated usage of the material are not the subjects of warranty. The customer is responsible for determination of suitability of this product for user's application. Warranty conditions: the product does not comply with requirements declared by manufacturer. In this case the manufacturer replaces the defective material within warranty period.

**•• LIMITATION OF LIABILITY**

The manufacturer's liability is limited by only cases stipulated by direct legislation of the country.

**•• STORAGE**

- The MerFill BOND bottle should be tightly closed immediately after use.
- Protect from direct light.
- Shelf life at room temperature is 2 years.
- Refrigeration will further increase shelf life.
- DO NOT FREEZE!

**•• RECYCLING**

Dispose of the medical device in accordance with local / regional / national / international legal requirements.

**•• PRESENTATION**

MerFill BOND – Bottle 6 ml.

**For professional use in dentistry only!**

**F&A  
MEDICAL****F&A MEDICAL**