IMPORTANT
READ ALL INSTRUCTIONS THOROUGHLY BEFORE USE.
KEEP THIS SHEET, AND REFER TO IT PERIODICALLY

ADHESIVE PRIMER FOR METALS
for MMA/PMMA Resins
META FAST BONDING LINER

FOR DENTIST OR DENTAL TECHNICIAN USE ONLY

META FAST BONDING LINER

INSTRUCTIONS

CAUTION

①The META FAST BONDING LINER is flammable. KEEP AWAY FROM OPEN FLAME.

②Handle the META FAST BONDING LINER in a well ventilated area. In case of inhalation of the vapor, move for fresh air.

③Avoid unnecessary contact of META FAST BONDING LINER with mucosa, skin or eyes. Contaminated surfaces should be wiped off immediately with alcohol and then rinsed thoroughly with copious amounts of running water. If META FAST BONDING LINER enters the eye, immediately rinse the eye thoroughly with running water and seek examination by an ophthalmologist. Clinicians/technicians should use rubber or PVC dental gloves.

1.What is META FAST BONDING LINER?

META FAST BONDING LINER is a primer containing a metal adhesive monomer (4-META)*1, to ensure good bonding between metals and MMA/PMMA resins to be used for dentures.

*1 : 4-methacryloxyethyl trimellitate anhydride

2.Content:

META FAST BONDING LINER ---------- 7mL (with a brush)

3.Precautions : Read all instructions thoroughly before use.

3.1 Safety

①Past history of sensitivity
META FAST BONDING LINER should not be used by clinicians/technicians or on patients who are methacrylate monomer sensitive.

②Symptomatic irritation
If signs of irritation such as redness appear, stop using META FAST BONDING LINER immediately and consult a physician.

③Avoid contact
Avoid unnecessary contact of META FAST BONDING LINER with mucosa, skin or eyes. Contaminated surfaces should be wiped off immediately with alcohol and then rinsed thoroughly with copious amounts of running water. If META FAST BONDING LINER enters the eye, immediately rinse the eye thoroughly with running water and seek examination by an ophthalmologist. Clinicians/technicians should use rubber or PVC dental gloves.

④Give care to flammability
META FAST BONDING LINER is flammable. KEEP AWAY FROM OPEN FLAME.

⑤Avoid inhalation
Handle META FAST BONDING LINER in a well ventilated area (air to be replaced several times per hour). In case of inhalation of the vapor, move for fresh air.

⑥Applications
Use only for the applications outlined in the instructions. Do NOT use META FAST BONDING LINER for materials other than MMA/PMMA resins.

3.2 Storage conditions

①Location
Store META FAST BONDING LINER in a cool, dark location. High temperature, high humidity and direct sunlight will shorten shelf-life. Provide the storage area with fire extinguishers.

②Quantity
Do NOT store a too large amount of META FAST BONDING LINER in one place.

③Volatility
META FAST BONDING LINER is volatile. Recap the bottles immediately after use.

4.How to use META FAST BONDING LINER

①(META FAST BONDING LINER should be applied to the pre-treated metal surface.)
First air-abrade the surface with 50μm- alumina, water-rinse and dry.
The precious metal alloys should be further heat-treated or tin-plated prior to the application of META FAST BONDING LINER.

②Apply the META FAST BONDING LINER with a brush or cotton pellet once and gently air-dry.

③MMA/PMMA resin should be applied within 3 minutes after priming with the META FAST BONDING LINER.
*Some of MMA/PMMA resins in the market may change a shade when used with META FAST BONDING LINER. At the initial use of a resin, in vitro pre-test of color change is recommended.

As in any dental treatment, the patient's individual constitution and the unique requirements of clinical case at hand must be considered before selecting materials and conditions for use.

5.Clinical Applications

META FAST BONDING LINER is especially effective in repairing Co-Cr or Ni-Cr based metal dentures and such resin dentures with clasps, wires etc., enhancing the bond strength thus preventing formation of the gap between the metals and resins.

①Metallic dentures
- ● Repair of resin fracture occurring at the metal/resin interface
- ● Addition of resin teeth

②Resin dentures
- ● Repair of resin fracture at cast or wire clasp
- ● Coating of cast clasp leg or wire clasp

③Fixing attachments
- ● Direct build-up for partial dentures
- ● Forming wire-reinforced temporary crowns
- ● Facing build-up of pontic

Technical data:

Material	Tensile Strength (MPa)
Co-Cr alloy	15
Stainless steel	16
Ni-Cr alloy	12
Au-Ag-Pd-alloy	8
Ag alloy	15
Titanium	17

1.Surface sand-blasted with 50μm Alumina
2.Bond strength between the primed metal and acrylic resin after 300 thermocycles.