TEETHMATE F-1

KIT COMPONENTS
- TEETHMATE F-1 Resin, 2 x 2.5 ml
  Light cured pit and fissure sealant containing adhesion monomer (MDP) and a fluoride releasing polymer.
  Available in 3 different shades: natural, opaque and red.
- K-ETCHANT GEL, 6 ml
  Thixotropic etching agent containing 40 % phosphoric acid

ACCESSORIES
- Brush tip handle, 50 disposable brush tips, 2 x 25 applicator nozzles, plate.

RELATED PRODUCTS
- CARIES DETECTOR
  Caries Detector is a clinical aid in the diagnosis of infected carious dentine.
  Caries Detector penetrates the broken cross links in the collagen fibres, which have been destroyed by bacteria, staining this area in a red colour.
  Caries Detector is also a conservative aid, for it will not penetrate the inner layer – which is partly calcified and will remineralize if left intact.
  Thus the doubt over whether the carious dentine begins and ends, is no longer so difficult to establish when Caries Detector is used routinely in Conservative Dentistry.

FEATURES AND BENEFITS
- Fast and easy to use
- Does not stain remineralizable carious-affected dentin
- Helps clinicians to preserve healthy tissue

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CONVENIENT FLOW CONTROL

TEETHMATE F-1 is a fluoride-releasing, light-curing, strongly adhering pit and fissure sealant in a newly developed application system for easy “flow-control”.

The stable co-polymer releasing fluoride is a unique invention by Kuraray.

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NOTE: Please read TEETHMATE F-1 Instructions for Use thoroughly before using the product. TEETHMATE F-1 is a trade mark performed by Kuraray Co., Ltd. All information contained herein is presented in good faith and without warranty. Kuraray Co., Ltd. will replace any product that is proved to be defective. Neither Kuraray Co., Ltd. nor the distributor shall be liable for any claimed injury or damage based on the intended use and the user assumes all risk and liability whatsoever in connection therewith. TEETHMATE F-1 GB-04.2002

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LITERATURE
STRONG ADHESION

TEETHMATE F-1 is an unfilled, low viscosity resin that penetrates deeply into pits and fissures, thus minimizing its exposure to opposing dentition. The well balanced TEETHMATE F-1 formula contains MDP, an adhesion monomer which is used for PANAVIA F resin cements and CLEARFIL SE BOND bonding systems. The unique MDP monomer provides real chemical adhesive strength and greater retention of TEETHMATE F-1 to etched enamel.

LONG LASTING FLUORIDE RELEASE

TEETHMATE F-1 contains a newly developed, patented fluoride-releasing co-polymer. It releases minute quantities of fluoride over time and therefore provides greater benefits than conventional resin pit and fissure sealants. In addition the polymer is chemically stabilized so that after fluoride release, the physical and chemical properties of TEETHMATE F-1 are not affected.

TEETHMATE F-1

The new fluoride-releasing pit and fissure sealant from Kuraray, performs a long-lasting fluoride release which was proved in several in-vitro studies (Mizuno et al., 1991; Garcia-Godoy et al., 1997). Shinji et al. (1998) even observed an in-vivo fluoride uptake of the enamel after one year and still fluoride left in the molecule of TEETHMATE F-1. This is possible, because TEETHMATE F-1 features a specific co-polymer system which does not change its main polymer structure while releasing fluoride constantly.

Besides it performs not only a micromechanical but also a chemical adhesion to the enamel structure by Kuraray's patented monomer MDP and thus enables strong adhesion and long durability of the fissure sealing.

FEATURES UND BENEFITS

- High bond strength to enamel
- Real chemical adhesion due to MDP
- Long lasting fluoride release with molecular stability
- Unfilled resin philosophy
- Easy handling
- Convenient flow control

CLINICAL INDICATIONS

- Direct fissure sealing
- Prophylactic preparation / enameloplasty
- Extended fissure sealing

There are many discussions in the academic field, if an unfilled or filled fissure sealant is the "state of the art". The main reason for choosing a filled sealant is because of its higher resistance against wear. However, Kuraray’s concept is not to have a big surface area like a small filling but to have a good sealing and adhesion to the etched enamel with minimal exposure to the occlusal area. As the literature shows, significantly thinner amounts of application can be achieved with unfilled sealants (Stach et al., 1992) and the sealing is significantly more sufficient (Kurashima et al., 2000). Another advantage of the unfilled is the surface stability against topical fluoride or acidic fluoride release (Kusunoki et al., 1992).

Regarding the retention of unfilled sealants show the same or better results in vitro and also in vivo after two respectively three years (Rock et al., 1990; Charbonneau et al., 1997).

Double bond for polymerisation
Hydrophilic alkyl group
Hydrophilic phosphate group

After Kuraray's invention of Phenyl-P in 1976, which was the first adhesive monomer in dental history the molecular structure was improved in 1983 to a molecule with stronger adhesion to tooth structures and also an affinity to metal. The result was MDP (10-Methacryloyloxydeacryloyloxyethylene phosphate).

MDP convinced by its special monomer structure:

A result of careful thinking

EASY HANDLING

The shape and flexibility of the incorporated applicator nozzles provide convenient access, handling and flow-control. The special shaped applicator barrel offers easy control of remaining resin by a transparent window.

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