kuraray

TEETHMATE™ DESENSITIZER



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THE HUMAN BOD' THE POWER OF

BIOCOMPATIBILITY

TEETHMATE DESENSITIZER (TMD) is composed of two different types of calcium phosphates which react under water to form Hydroxyapatite (HAp).

This product is free from glutaraldehyde, gluten, methacrylates and colophony resins; therefore, making it highly biocompatible with no gingival irritation.

This mildly alkaline product is easy to apply (Figure 1) without any extra measures needed for isolation. TMD can be used safely in both children and adults.



Figure 1: Application of TEETHMATE DESENSITIZER to treat cervical hypersensitivity.

CAN BE USED FOR MOST SENSITIVITY CHALLENGES

This can be used in a wide variety of treatment approaches for treating sensitivity:



Exposed Dentin (Ex: Cervical Hypersensitivity)



Scaling/Root Planing



Before/After Bleaching

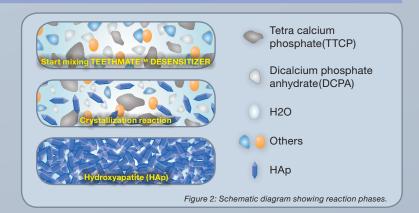


Dentin Prepared for Prosthesis

SMART TECHNOLOGY*

TMD actually crystallizes to form HAp, nicely sealing dentinal tubules and enamel cracks. The newly created HAp acts as if it were the patient's own. How is it possible to build HAp?

It's about the right calcium and phosphate ion ratio and the right pH combined with Kuraray Noritake Dental's special technology.



^{*} The fundamental HAp technology was developed by the ADAF (American Dental Association Foundation) - Paffenbarger Research Center. The basic manufacturing method was developed by Dr. Laurence C. Chow and Dr. Shozo Takagi in the research center and Dr. Akiyoshi Sugawara who practices as a dentist in Tokyo. Kuraray Noritake Dental modified the powder, manufacturing method, additives etc. to optimize the technology for desensitizer usage. Please refer to the literature below when you wish to find out more about this fundamental technology.

^{1.} Brown, WÉ.; Chow, LC.: A new calcium phosphate setting cement. J Dent Res, 62, 672, 1983.
2. Sugawara, A.; Chow, LC.; Takagi, S.: An in vitro study of dentin hypersensitivity using calcium phosphate cement. J J Dent Mater, 8(2), 282-292, 1989.

Y'S STRONGEST MINERAL NATURAL ELEMENTS

EASY TO USE, IMMEDIATE RELIEF FROM SENSITIVITY

No Air Blow

TMD is tolerant

of the moisture in the oral cavity due to its unique hardening mechanism; no air blow required.

No **Light-Cure**



Self-hardening of the calcium phosphates creates HAp without the use of a curing light.

No Film **Thickness**



No side effects with the use of adhesives. TMD covers only the dentinal tubules or enamel cracks; there is no film thickness

TEETHMATE DESENSITIZER

(TMD) is easy to apply due to its high biocompatibility and does not require air-blow, or light-cure.

It has no film thickness and can be used easily under restorations.

As the calcium phosphate components harden quickly to form hydroxyapatite, relief from sensitivity is immediate.

DOES IT REALLY WORK?

of dentists agree that TEETHMATE **DESENSITIZER** is very effective.

*285 Japanese dentists already answered this question. 92% of the dentists said that **TEETHMATE DESENSITIZER** is very effective.



Tips for the maximum

Apply the paste more than 30 sec. with rubbing motion.

2-3 times if the sensitivity is remaining.

This products does not

performance;

Repeat the application

damage tooth structure or gum, and has no film thickness.

LONG TERM DURABILITY

HAp formation can be experimentally proven through XRD analysis (Figure 3). This formation contributes to long term durability.

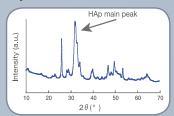


Figure 3: XRD Analysis confirms HAp formation.

Open dentinal tubules that were treated with TMD showed evidence of sealed tubules after 5 months storage in artificial saliva (Figure 4) in vitro.

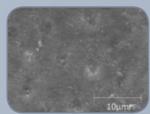


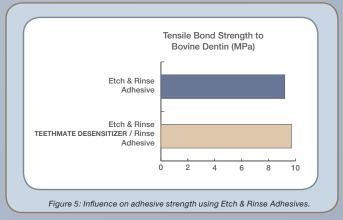
Figure 4: SEM Photo of Dentin Surface after 5 months storage in artificial saliva (37°C).

Data Source: Kurarav Noritake Dental Inc.

NO INTERFERENCE WITH ADHESIVES

Application of TMD prior to application of adhesives does not reduce bond strength (Figure 5).

This is especially helpful for clinicians who are using etch and rinse adhesives.



Data Source: Kurarav Noritake Dental Inc.

OPTIMUM TREATMENT OPTION

TEETHMATE™ DESENSITIZER (TMD) consists of a powder and liquid. We optimized delivery by using powder and liquid which

The product readily penetrates into the moist tooth structure

to occlude opened dentinal tubules or enamel cracks by forming hydroxyapatite (HAp) and usually does not require multiple treatments to achieve a therapeutic effect.



EASY TO MIX AND APPLY TO ANY SURFACE

Application is easy. Clean the surface, saliva or plaque; hold and dispense the liquid (Figure 6); add the powder in the correct ratio (Table 1) and mix with a micro-applicator. Rub the slurry into the treatment area for at least 30s. Rinse and check for desensitizing effect.



PRODUCT INFORMATION



#1210KA

TEETHMATE **DESENSITIZER Set**

- 1 x Powder (6g) 1 x Liquid (4.8mL) Accessories : 1 x Mixing Dish

- 1 x Measuring Spoon 50 x Applicator Brush (superfine <white>)



#1216KA TEETHMATE DESENSITIZER POWDER

(6g)



#1217KA TEETHMATE DESENSITIZER Liquid

(4.8mL)

any loss or damage, direct, consequential or special, arising out of the application or use of or the inability to use these products. Before using, the user should determine the suitability of the products for the intended use and the user assumes all risk and liability whatsoever in connection therein. TEETHMATE DESENSITIZER and Kuraray Noritake Dental Inc. products are available only through Kuraray Authorized dealers.