Clinical Cases

Localized area : Canine with dentin hyper sensitivity

Clean the surface

Apply

After 30 sec. application and rinsed

Large area : After cleaning

Polish after scaling
(mechanical instrumentation)

Dispense Gel Desensitizer
to a rubber cup

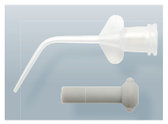
Rub each tooth surface with
low to moderate speed for 5 sec.

Pictures of product

Contents of the kit

① Gel Desensitizer
1 (3ml)

② 10 Plastic Needle Tip
+ 1 grey Needle Cap



Sold Separately

50 Plastic Needle Tip
+ 2 grey Needle Caps

Made in Japan by

SUN MEDICAL CO.,LTD.

571-2 Furutaka-cho, Moriyama,
Shiga, 524-0044, Japan
Phone:81-77-582-9981 Fax:81-77-582-9984
http://www.sunmedical.co.jp

Read carefully instructions and labels before the use - Notify body: TÜV SÜD Product Service GmbH - APRIL 2019 version

Exclusive European distributor :
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E-mail : generinter@aol.com - Web : www.generiqueinternational.com

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SUN MEDICAL

Gel Desensitizer

Desensitizer for Hypersensitive Teeth

New gel-type desensitizer
Easier application and higher effectiveness

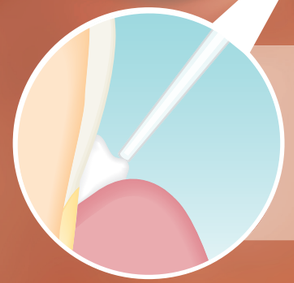
Easier application and higher effectiveness!
New gel-type desensitizer

Easy application without the hassles of multiple steps! No measuring, mixing, applicators or light-curing.

- Point 1 **Direct application from the syringe**
- Point 2 **No need of rubbing motion**
- Point 3 **Perfect viscosity lets it stay on the spot**
- Point 4 **Biologically accepted for gingiva**

Clinical procedure

1. CLEAN
Clean a tooth surface with brushes or cotton pledgets.



2. APPLY
Form a thin layer and wait for 30 seconds.

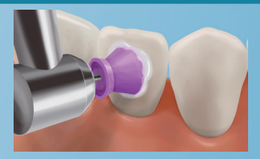
The gel has a pleasant sweet flavor.

3. ASK THE PATIENT TO RINSE WITH WATER

TIP 1

If the area is too sensitive to have deposits removed, you can apply the gel over the deposits with cotton applicator and rub it in.

TIP 2

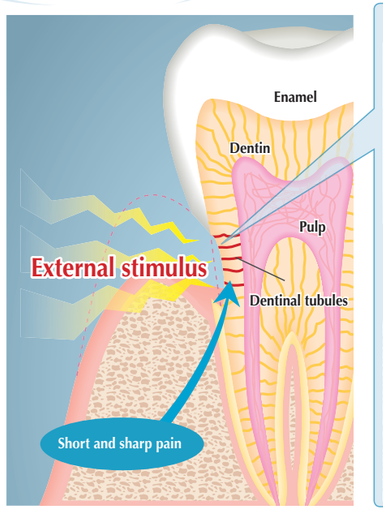


Use a rotary cup with low speed for a larger area.

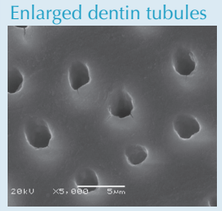
Excellent performance on desensitization

MS Polymer | Oxalic acid | Potassium salt

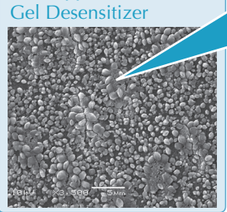
Gel Desensitizer inherited MS Coat series' excellent performance in managing hypersensitivity, advanced with additional potassium salt. Nano sized MS polymer and oxalic acid react chemically with calcium in teeth and form a protective film containing fluoride (sodium fluoride) and potassium salt. The gel remains longer on teeth so dentin tubules can be sealed tighter than other MS Coat series



Enlarged dentin tubules



After application of Gel Desensitizer



Cross sectional view of dentin (after one 30 sec. application)

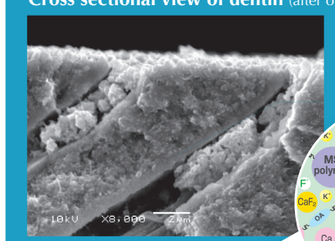
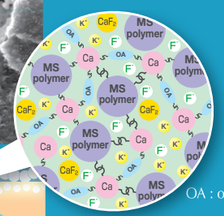
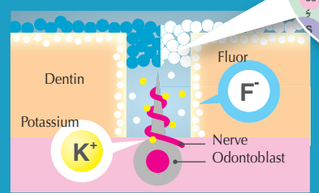


Image of cross sectional view of dentin

Gel Desensitizer reacted with calcium to coat the dentin surface and occluded dentin tubules.



OA : oxalid acid



Increased number of potassium ion is effective on inhibition of neuron transmission.*

*Kim S: Hypersensitive teeth: desensitization of pulpal sensory nerves; J Endod 12, 482-485, 1986.
*Peacock JM, Orchardson R: Effects of potassium ions on action potential conduction in A- and C-fibers of rat spinal nerves; J Dent Res 74, 634-641, 1985.

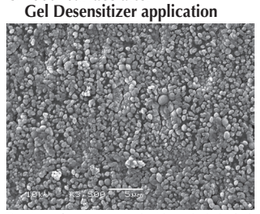
Increased acid resistance

Sodium fluoride 900 ppm

Included sodium fluoride improves MS polymer film's acid resistance. It protects the coated area from demineralization by dietary acids.

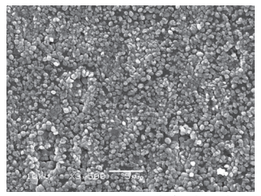
Inhibits acid erosion

● **Tooth surface after Gel Desensitizer application**



Dentin surface was coated with occluded tubules.

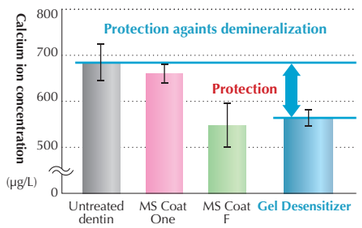
● **Protected area after soaked in a soda for 10 min.**



MS Polymer coating remained after the soda attack.

Protection from demineralization by lactic acid

(Application for 30 sec.)

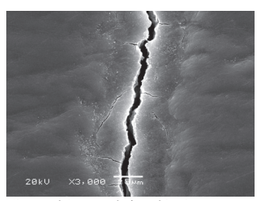


The amount of calcium ion released by the acid challenge (lactate pH 4.5, for 2 hours) from the dentin pretreated with 3 different desensitizers.

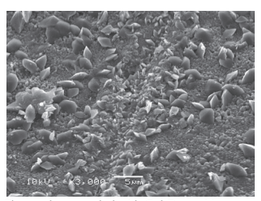
Gel Desensitizer inhibited the demineralization as well as MS Coat F. Adding sodium fluoride contributed to the improved acid resistance of MS polymer film.

Decreased hypersensitivity at tooth whitening

Gel Desensitizer can reduce the hypersensitivity after tooth whitening.

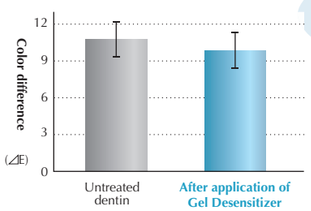


Microcrack in enamel after whitening.



The crack was sealed with Gel Desensitizer.

Application of Gel Desensitizer before the whitening will not alter the whitening results.



The gel will not affect the future whitening treatments. The outcome of desensitized enamel will be as bright as the non-treated enamel.