

GLUMA®

eBook



GLUMA® Desensitizer PowerGel

Spot-on Desensitization.

Power over pain: **over 140 million** teeth worldwide have been treated with GLUMA to stop and prevent hypersensitivity.*

Giving a hand to oral health.



KULZER
MITSUI CHEMICALS GROUP

*Data on file. Number reflective of entire family of GLUMA products, which includes GLUMA Desensitizer (liquid) and GLUMA Desensitizer PowerGel.

Where it all began...

From introduction to accolades.

Gluma Desensitizer has been on the market for more than 25 years and has been used in over 140 million restorations worldwide to stop and prevent hypersensitivity. One drop of Gluma is all you need and the result is fast and effective. No mixing, no curing and no repetitive steps.



TOWNIE CHOICE AWARD	FIVE STAR AWARD	TOP DESENSITIZER	CLINICIAN'S REPORT
• 2003	• 2001	• 1997	• 2009
• 2004	• 2002	• 2000	
• 2005	• 2003	• 2008	
• 2006	• 2005		<i>Top Effective Product for Class II</i>
• 2007	• 2006		
• 2008	• 2007		
• 2009	• 2009		
• 2010	• 2011		
• 2011	• 2012		
• 2012			

Enter PowerGel

Same trusted chemistry, new gel consistency

With the same proven efficacy as Gluma Desensitizer, **Gluma Desensitizer PowerGel** is a unique one-step gel formula that allows for greater control and accuracy during application. In addition, its unique green color indicator provides visual ease of placement and rinse-clean capability.



Ideal for use on:

- Tooth neck erosion
- Exposed dentine
- Hypersensitive teeth due to gingival recession



DENTAL
ADVISOR
• 2013



FIVE STAR
AWARD
• 2013



FIVE DIAMOND
AWARD
• 2011

Billable to insurance with codes D9910 / D9911

Proven results.

Often imitated, never duplicated.

✓ **Desensitize:**

Gluma is the **only** desensitizer proven to penetrate exposed dentinal tubules up to 200 μ . The result is the formation of multiple layers of protein septas that prevent inter-tubular fluid movements due to osmotic changes.

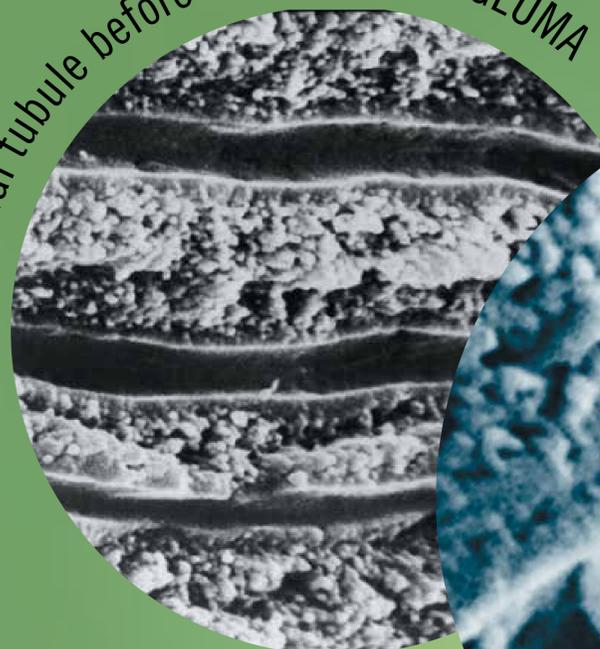
✓ **Inhibit bacteria:**

Gluma provides a hermetic seal that acts as a microbial barrier, inhibiting bacterial growth.

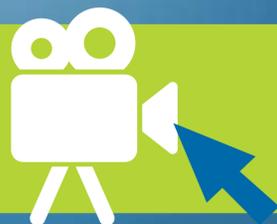
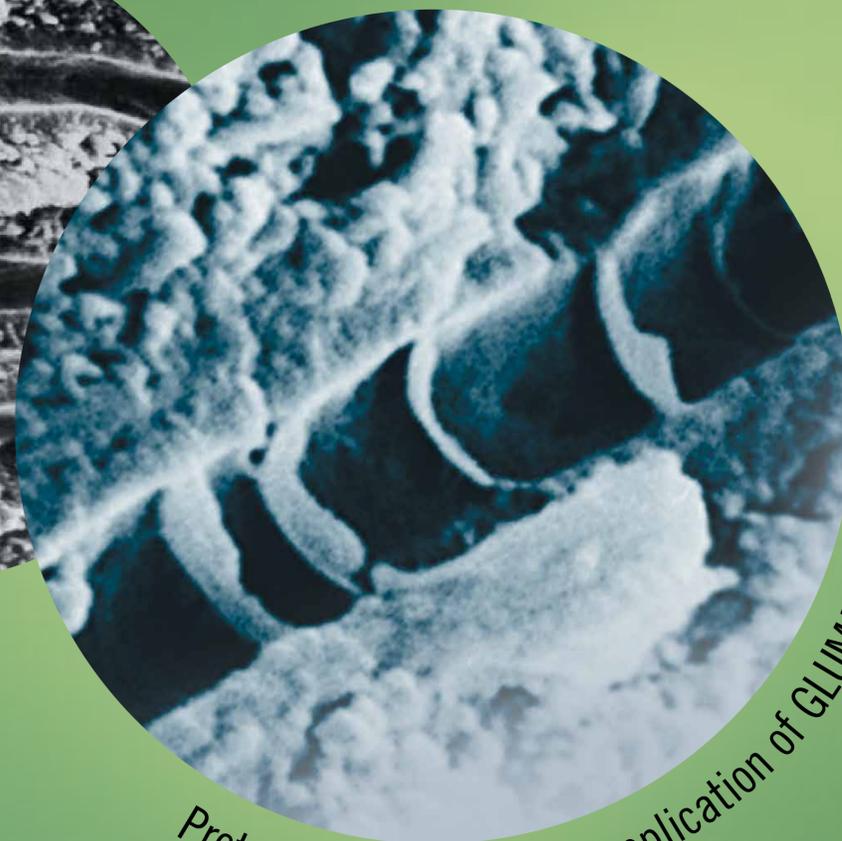
✓ **Re-wet:**

Gluma resurrects collapsed collagenous fibers, improving the bond strength of many adhesives.

Dentinal tubule before application of GLUMA



Protein septas following application of GLUMA



Learn more: watch the
Gluma explainer video

Power over pain.

Gluma Desensitizer: Hypersensitivity

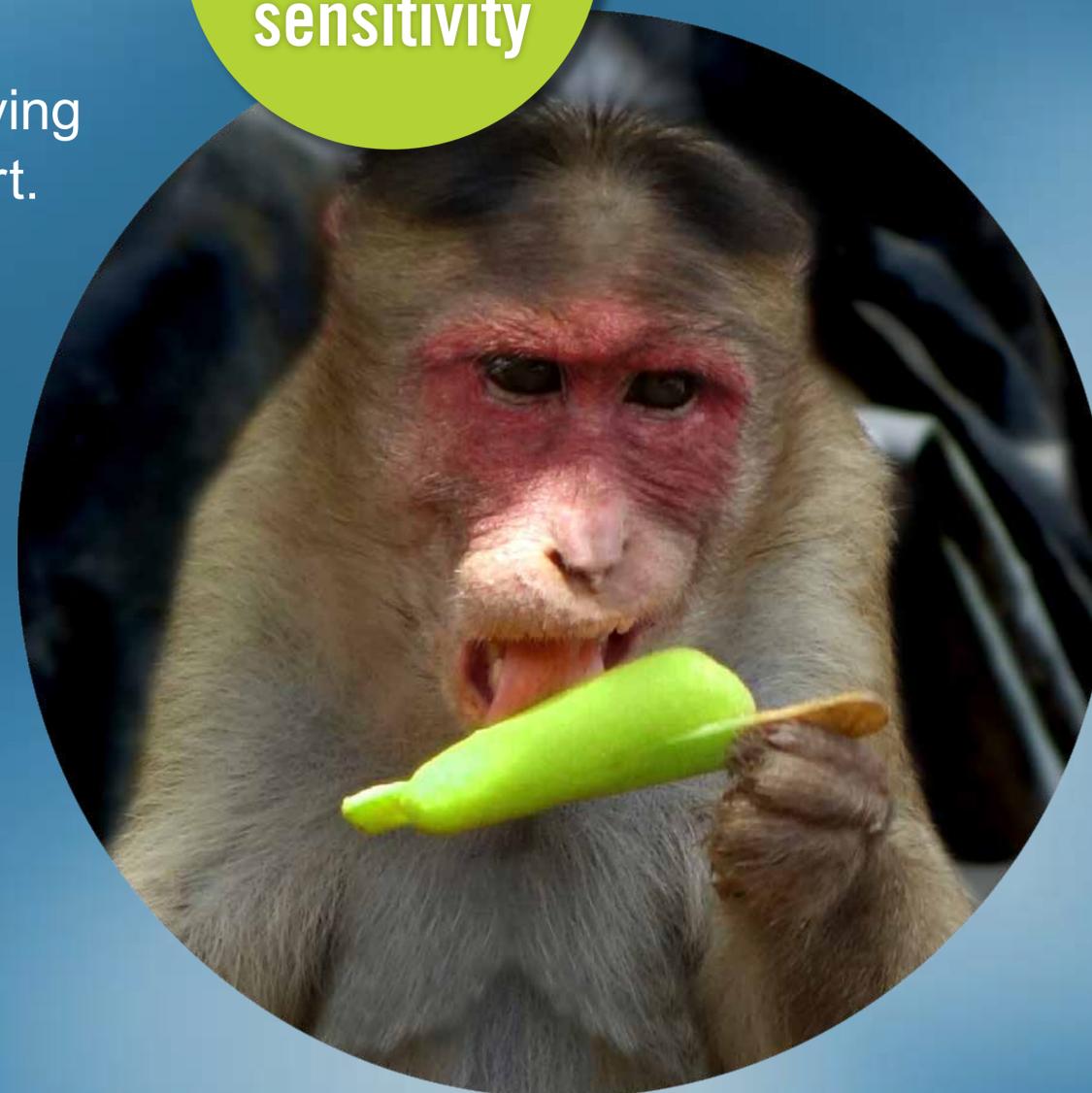
Did you know that approximately **one-third of all adults experience sensitivity regularly**? This means that even enjoying life's simple pleasures—favorite foods and beverages—can hurt. Sweet chocolate, sour apples, salty chips, ice-cold drinks or hot food can all cause intense and sometimes agonizing pain.

The good news is, something can be done to relieve their suffering. For **long-term results** and **happy patients**, use GLUMA Desensitizer PowerGel on:

- *Gingival recession*
- *Exposed dentin*
- *Tooth neck erosion*

By creating a protective seal over these sensitive areas, PowerGel can help your patients **enjoy months of pain-free eating and drinking**. PowerGel will start working immediately after application...and, **it's billable to insurance!**

1 in 3 adults
suffer from
sensitivity



*No more monkeying around
when it comes to sensitivity!*

Billable to insurance with codes D9910 / D9911

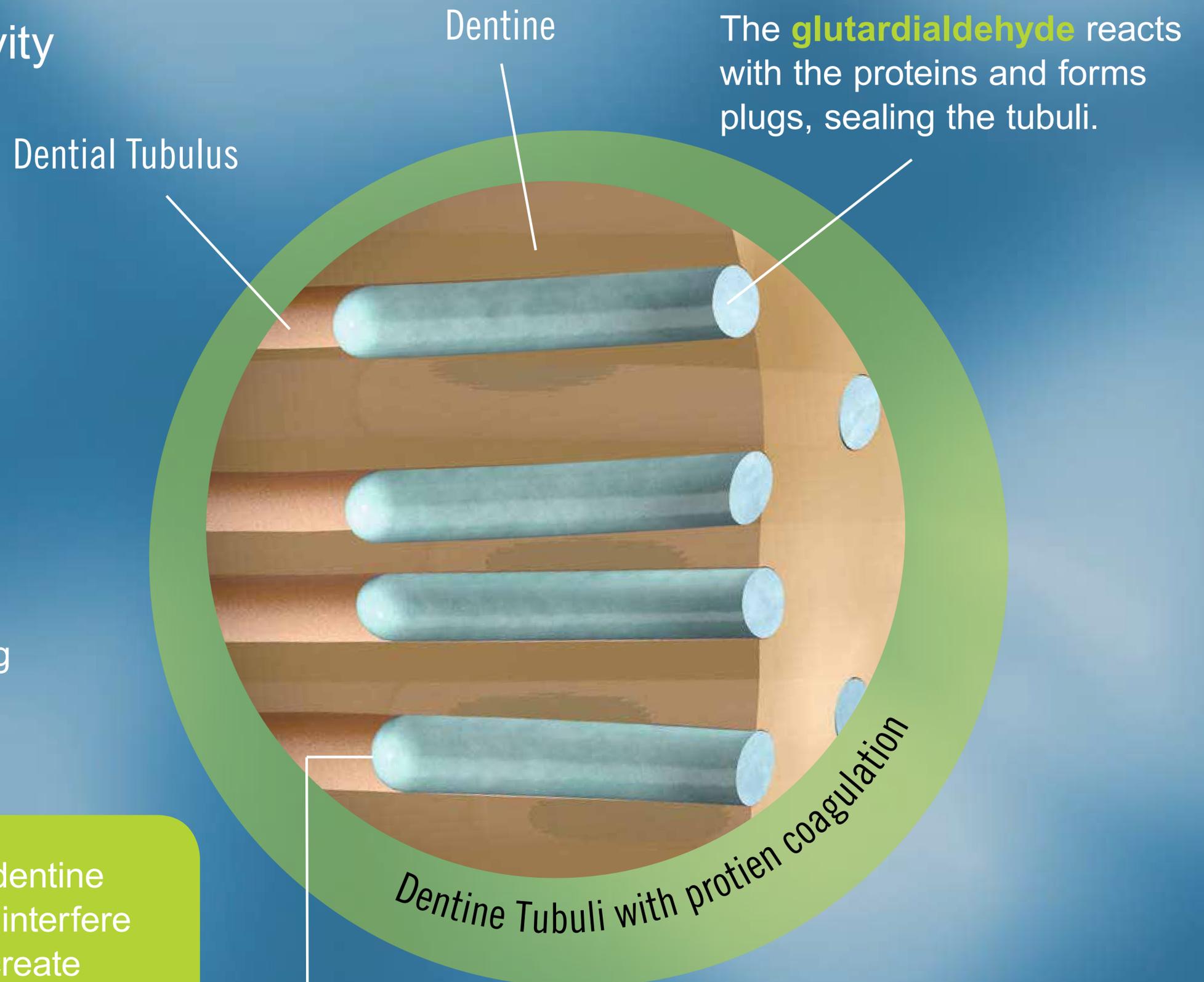
How it works

Reducing Hypersensitivity

Both GLUMA Desensitizer and GLUMA Desensitizer PowerGel contain **glutardialdehyde** and **HEMA** (Hydroxyethylmethacrylate).

Because of these coagulated proteins (protein septa), the permeability of the dentine is significantly reduced and movements of other stimulating effects are lessened.

GLUMA functions within the dentine tubuli and therefore does not interfere with adhesive treatments or create a layer on the dentine surface.

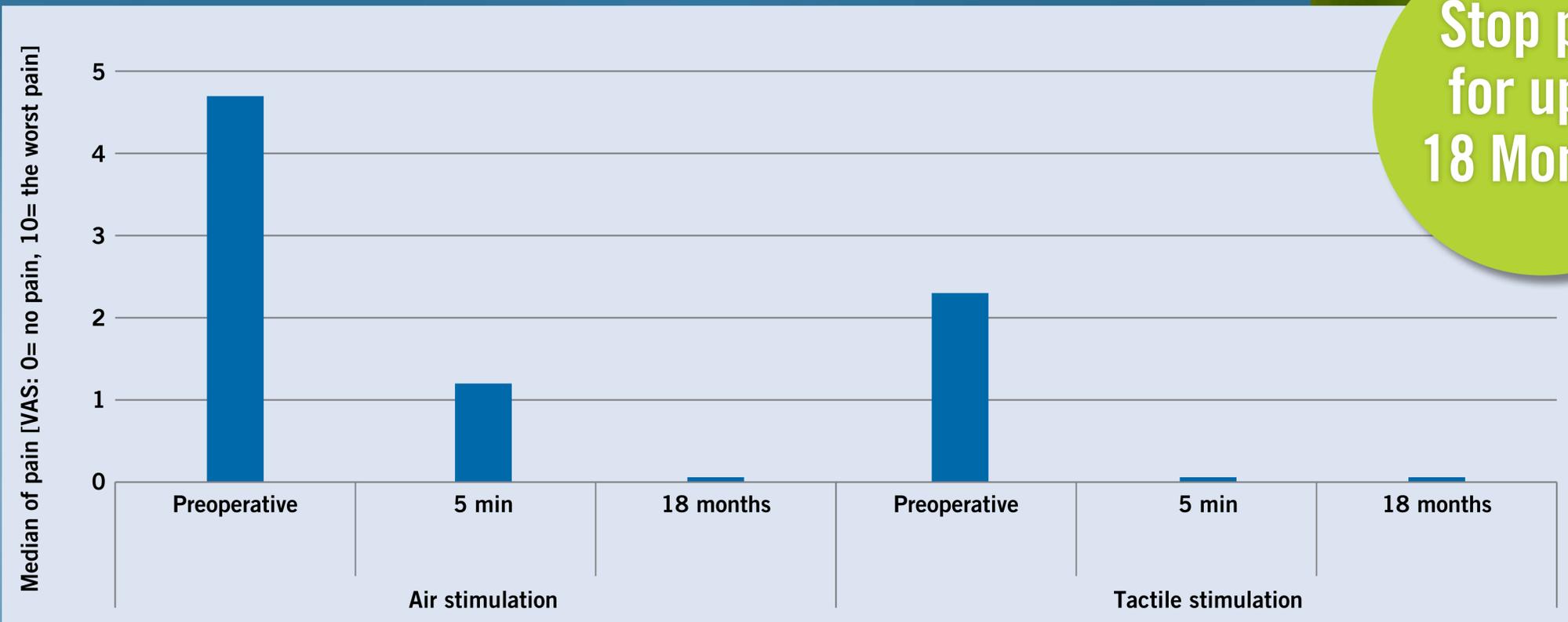


HEMA enables glutardialdehyde to penetrate up to 200µm into the dentine tubuli.

Scientific Study

Gluma Desensitizer Liquid: Hypersensitivity

An 18-month randomized clinical trial conducted at the University of Sao Paulo, Brazil confirms the sustained efficacy that liquid GLUMA Desensitizer has in reducing dentine hypersensitivity.



Stop pain
for up to
18 Months!



Read the full scientific report for more detail.

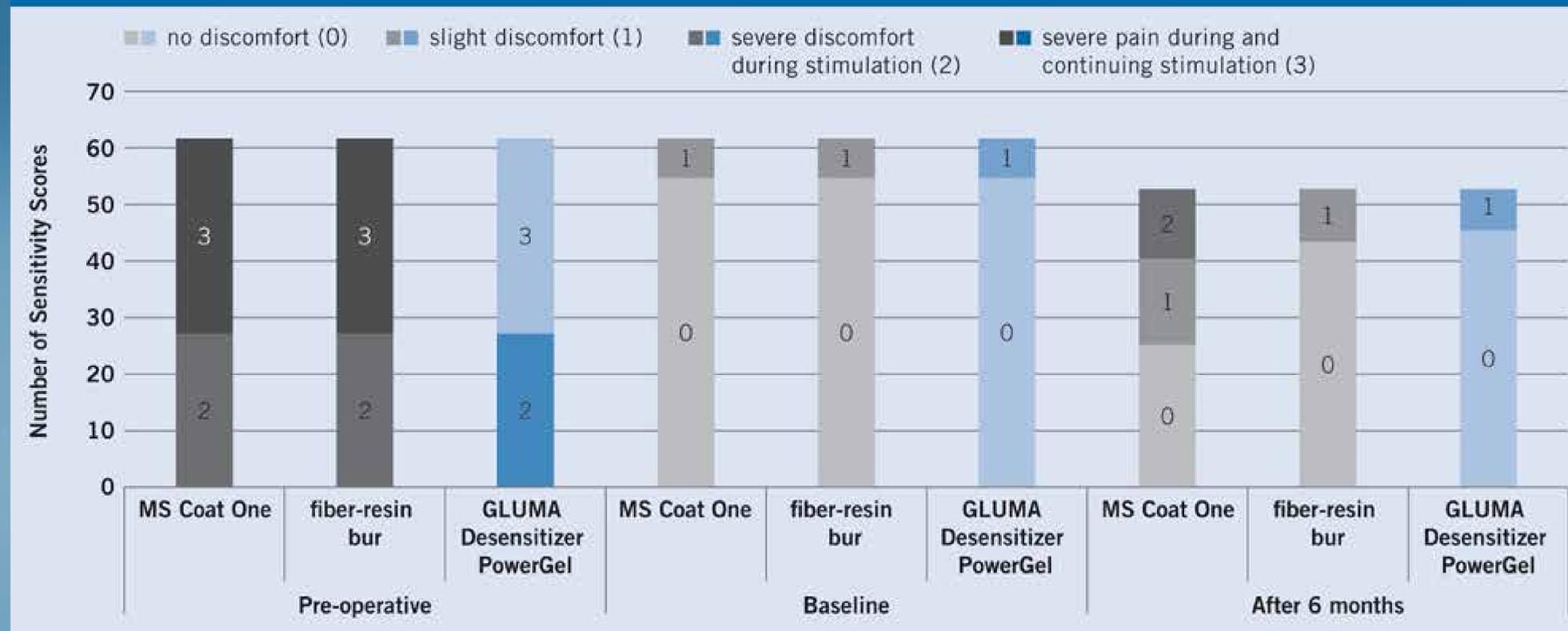
Scientific Study

Gluma Desensitizer PowerGel

POWER
over pain

Gluma Desensitizer PowerGel also performs well when used topically to prevent hypersensitivity, as shown in this clinical study from the University of Bologna, Italy.

GLUMA Desensitizer PowerGel leads to an effective reduction of dentine hypersensitivity directly after application and up to 6 months



[Read the full scientific report for more detail.](#)

How to use Gluma

One unique chemistry, two consistencies, three ways to use Gluma

Hypersensitive teeth have a negative impact on patients' quality of life and can cause considerable discomfort to patients during dental treatment.

In the pages that follow, we'll introduce you to the easy application of GLUMA Desensitizer and GLUMA Desensitizer PowerGel for three different indications:

- **Treatment** of hypersensitive cervical dentine
- **Prevention** of post-operative discomfort after direct restorations
- **Prevention** of post-operative discomfort after indirect restorations



1. Treat hypersensitive cervical dentine

1. Preparation

Protect the gingiva with a rubber dam and clean the teeth using pumice slurry.



Tip: Always protect the gum to prevent glutaraldehyde-induced irritation of the gingiva.

2. Application (A) with GLUMA Desensitizer

Apply GLUMA Desensitizer locally on the exposed dentine in the cervical tooth area.

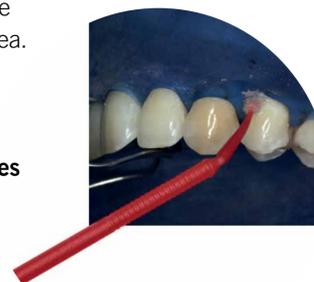


GLUMA Desensitizer



GLUMA Desensitizer enables

- Long-lasting reduction of dentine hypersensitivity.
- Easy application.
- Non-invasive treatment.



Tip: It can take up to a couple of hours until the optimum desensitizing effect is achieved. In rare cases, GLUMA Desensitizer needs to be applied more than once.

3. Exposure time



Apply GLUMA Desensitizer and GLUMA Desensitizer PowerGel for an application time of 30–60 seconds. Air dry the liquid GLUMA Desensitizer until the gloss of the liquid disappears.

30–60 sec.

4. Rinse off



Rinse off GLUMA Desensitizer and GLUMA Desensitizer PowerGel completely with plenty of water. Mouth washing of the patient alone is not sufficient.

2. Application (B) with GLUMA Desensitizer PowerGel

Rinse off the etchant and apply GLUMA Desensitizer PowerGel for 30–60sec.



Apply the gel directly from the syringe ...

OR

... directly with a dental probe.



Tip: Always close the syringe with its original cap. This will ensure that the product does not dry and avoid loss of product.

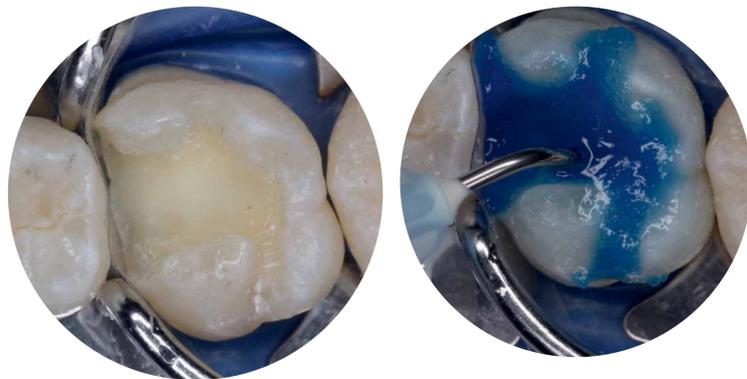


Tip: By using a dental probe the gel can be placed accurately.

2. Prevent post-operative discomfort after direct restorations

1. Preparation

Excavate and prepare the cavity for a direct composite restoration.



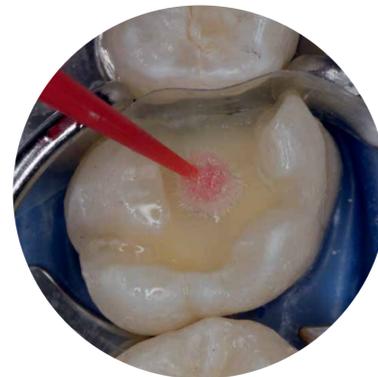
Tip: In case of a total etch treatment of the entire cavity, GLUMA Desensitizer should be applied after the etching.



GLUMA Desensitizer

2. Application (A) with GLUMA Desensitizer

Place GLUMA Desensitizer on the dentine for 30–60 sec. Then it needs to be air-dried until the gloss of the liquid disappears.



30–60 sec.

2. Application (B) with GLUMA Desensitizer PowerGel

Rinse off the etchant and apply GLUMA Desensitizer PowerGel for 30–60 sec.



Tip: GLUMA Desensitizer / GLUMA Desensitizer PowerGel is fully compatible with all dental adhesives and luting materials. The bond strength remains high.



30–60 sec.

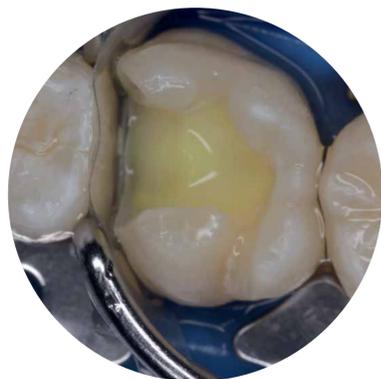


GLUMA Desensitizer ensures

- Full compatibility to all dental adhesives and luting materials.
- Quick and easy application.

3. Rinse off

Rinse off GLUMA Desensitizer/GLUMA Desensitizer PowerGel with plenty of water. Afterwards, remove the excess water.



4. Application of the adhesive



iBOND Universal



Apply the adhesive (e.g. iBOND Universal) on the entire cavity.



Finally, place the composite (e.g. Venus Diamond) increments.



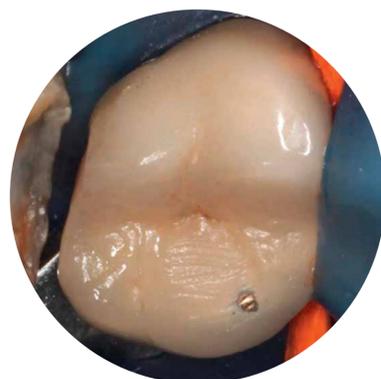
Venus Diamond

3. Prevent post-operative discomfort after indirect restorations

1. Preparation



Clinical situation: Insufficient Cerec ceramic partial crown on tooth 17.



Cavity preparation after mesial box elevation using iBOND Universal and Venus Diamond Flow Baseline.



iBOND Universal



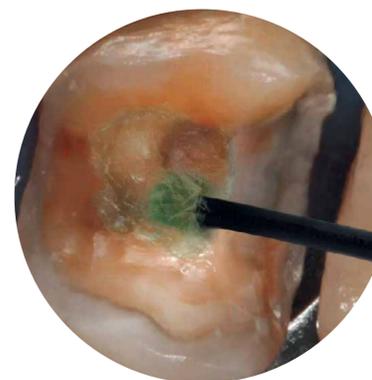
Venus Diamond Flow Baseline



Tip: Apply GLUMA Desensitizer PowerGel or GLUMA Desensitizer after dentine etching.

2. Application

with GLUMA Desensitizer/GLUMA Desensitizer PowerGel



Apply GLUMA Desensitizer PowerGel or GLUMA Desensitizer on dentine. The liquid GLUMA Desensitizer needs to be air-dried.



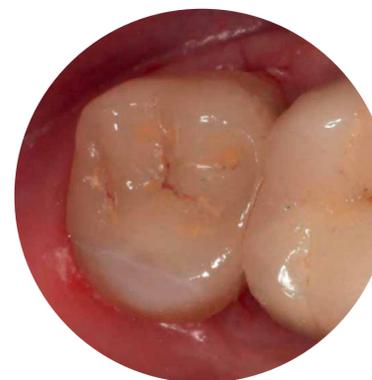
After 30–60sec application time, rinse the cavity with plenty of water and remove excess water.



GLUMA Desensitizer



GLUMA Desensitizer PowerGel



Final restoration after bonding of the cavity surface and luting of the disilicate partial crown using an adhesive cement.

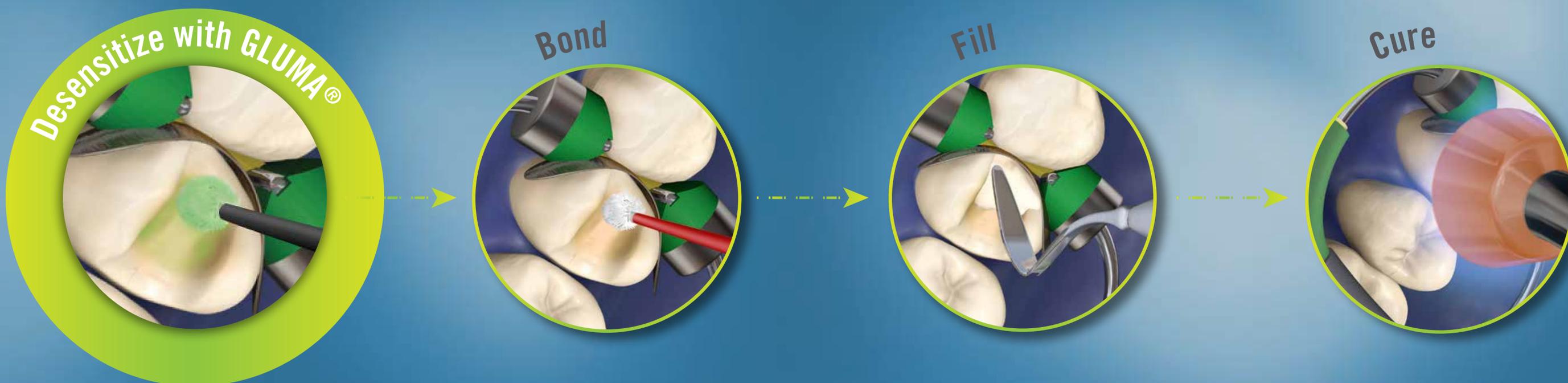


Tip: The green gel consistency enables a better controlled application.

Under every restoration.

Use GLUMA to stop and prevent sensitivity.

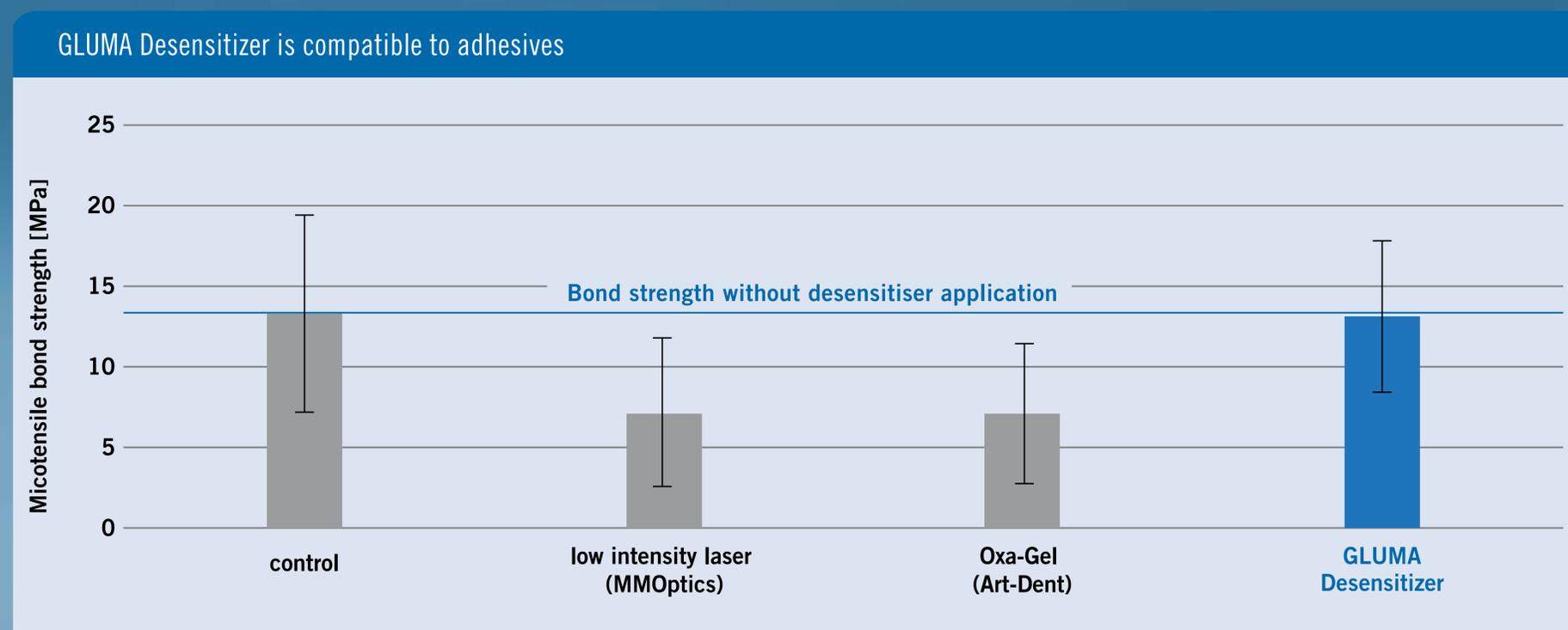
When it comes to direct restorations, choosing the right product for a specific situation or indication makes all the difference. Kulzer's trusted products combined with your expertise guarantees the best outcome every step of the way. We'll help you find the solution most suitable for your diagnosis and demonstrate correct application so that you consistently achieve great results.



Scientific Study

Gluma Desensitizer: Bond Strength

Many agents interfere with adhesives because they alter the surface of the dentine. The following study reveals that this is **not** the case for Gluma Desensitizer. It is compatible with self-etch adhesives.



This study confirms that GLUMA Desensitizer is compatible to adhesives. The bond strength of the control group is as high as in the non-treated control group. GLUMA Desensitizer only works within the dentinal tubuli. It stops hypersensitivity by clotting proteins in these tubuli. Other desensitizing agents only have an effect on the dentine surface which may impair the establishment of a strong adhesive layer.



Read the full scientific report for more detail.

In Conclusion

GLUMA Desensitizer PowerGel...

- ...is indicated for the treatment of hypersensitive dentine.
- ...is billable to insurance with codes 09910/D9911.
- ...has demonstrated its long-term effectiveness of up to 18 months in various clinical studies.
- ...can be used to eliminate pain in exposed cervical areas which do not require restoration, and alleviate or prevent dentinal sensitivity after preparing the teeth to receive direct or indirect restorations.
- ...is fully compatible with dental adhesives and luting cements, according to various studies.

600

teeth per hour

10

teeth per minute

140
million

teeth saved since 1992

15,000

teeth per day



 Any questions? Read our full list of FAQs.

Get your PowerGel sample!



Special Offer

1+1

**BUY 1 Gluma Desensitizer Bottle,
GET 1 PowerGel Kit at no charge!**

GlumaOffer.com 