Hema – Benz Desensitizer with Fluoride

**General Information**

**Chemistry**
- Benzalkonium Chloride
- Sodium Fluoride
- HEMA
- Water

**Function**
- Stops dentinal fluid shifts by polymerization with proteins within the tubuli, providing a physiological seal.

**Shelf Life**
- 36 months

**Warning**
- Avoid contact with eyes, skin. If accidental contact occurs, FLUSH IMMEDIATELY WITH WATER. CONSULT A PHYSICIAN IMMEDIATELY IF EYE CONTACT OCCURS.

**Storage Conditions:**
- For your convenience the manufacturing date is stamped on the Desensitizer box. Do not store above 77°F (25°C). Refrigeration is recommended if not used for a long period of time. Allow to return to room temperature prior to use. DO NOT FREEZE. For dental use only. Keep away from children.

**DIRECTIONS FOR USE**

**APPLY DESENSITIZER TO THE DENTIN OF THE TOOTH TO BE RESTORED OR THAT HAS SENSITIVITY USING A GENTLE RUBBING MOTION FOR 30 SECONDS WITH A STERILE COTTON PELLET OR BRUSH APPLICATOR. DO NOT RINSE.**

Desensitizer is compatible with all restorative materials and may be used in all restorative situations.

**Preparation**
1. Prepare cavity area, if required
2. Place pulp protection, if desired, over areas very close to the pulp
3. Place pulp protector only where necessary
4. A dry tooth surface prior to application is not necessary. A moist surface is acceptable.

**WHEN TO APPLY DESENSITIZER**

**Under Amalgam Restorations:** Place after the tooth has been prepared, prior to placing amalgam. If using a bonding agent under an amalgam restoration, apply Desensitizer after removal of smear layer (usually accomplished by applying an acid etchant contained in the bonding system).

**With Other Bonding Systems:** Place Desensitizer after the dentinal smear layer has been removed (usually accomplished by applying an acid etchant contained in the bonding system). Desensitizer does not require removal of the smear layer in order to desensitize, but most dentin bonding agents require removal in order to achieve a bond.

**Under Glass Ionomers:** Place Desensitizer prior to placement of the glass ionomer material. Leave tooth moist with Desensitizer when seating crown.

**Under Non-Resin Bonded Restoration:** At seating of temporary: Apply Desensitizer prior to application of temporary cement. At final seating: Apply after removal of temporary cement and cleaning of the tooth, prior to placement of permanent cement.

**Under Resin Bonded Veneers, Inlays, Onlays, Crowns:** At seating of temporary: Apply Desensitizer prior to application of temporary cement. At final seating: Place Desensitizer after smear layer has been removed (usually accomplished by applying and acid etchant contained in the bonding system). Desensitizer does not require smear layer removal in order to desensitize, but most dentin bonding agents require removal in order to achieve a bond.

**After Root Planing/Perio treatment:** Apply Desensitizer directly to the treated area with a gentle rubbing motion using a sterile cotton pellet.

**Technique 1:**
1. Providing the tooth is not too sensitive, clean the cervical area with pumice and rinse area with water.
2. Apply Desensitizer for 30 seconds with a cotton pellet, using a gentle rubbing motion.
3. Lightly blot or let air-dry. Do not rinse.
4. Repeat application if required.

**Technique 2:**
If area is too sensitive to clean with pumice:
1. Apply Desensitizer for 30 seconds using a gentle rubbing motion with a sterile cotton pellet.
2. Lightly blot dry or let air dry. Do not rinse.
3. Apply second application of Desensitizer.
4. Lightly blot dry or let air dry. Do not rinse.
5. If patient is no longer hypersensitive, apply Desensitizer again using Technique 1. In extreme cases where cervical sensitivity is a continuous problem, Desensitizer can be used with any moist bonding system.

**NOTE:** Clinical use has shown inconsistent, patient-specific results with desensitizing after root planning. In some cases, multiple applications with mechanical rubbing of Desensitizer provided better results.

**MSDS Dated:** January 1, 2012

Healthdent’re L.L.C. Naperville, Illinois 60563 1-800-845-5172
Material Safety Data Sheet

May be used to comply with OSHA’s Hazard Communications Standard
Based on approved form OMB No. 1218-0072

Identity: Hema Benz® Desensitizer

SECTION
Manufactured For:
Healthdent’l
Naperville, IL 60563

SECTION II
Hazardous Components (Specific Chemical Identity; Common Name)
Benzalkonium Chloride N-Alkyl (C12,16)-N, N-Dimethyl N
Hydroxyethyl methacrylate, HEMA, Benzylammonium Chloride, Hyamine 3500
Sodium Fluoride
Water

SECTION III
Boiling Point: Undetermined
Vapor Pressure (mmHg): Undetermined
Solubility in Water: Very Soluble
Appearance and Odor: Clear liquid with mildly pungent odor

SECTION IV – FIRE AND EXPLOSION DATA
Flash Point (Method Used): >212°F (100°C)
Extinguishing Media: Not a fire hazard
Special Fire Fighting Procedures: Not a fire hazard
Unusual Fire and Explosion Hazards: Not a fire hazard

SECTION V – REACTIVITY DATA
Stability: Unstable:
Stable: Yes
Incompatibility (Material to Avoid): Alkalies, free radical initiators, intense ultraviolet radiation
Hazardous Decomposition or Byproducts: None
Hazardous Polymerization: May Occur: Yes
Will Not Occur:

SECTION VI – HEALTH HAZARD DATA
Route of Entry
Skin: Possible
Ingestion: Possible
Eyes: Possible
Health Hazards (Acute and Chronic): Skin, eye irritation followed by sloughing, possible allergic reaction
Carcinogenicity: Not shown
NTP: Not listed
IARC: Not listed
OSHA Regulated: No
Signs and Symptoms of Exposure: Red mucosal membranes, dermatitis
Medical Conditions Generally Aggravated by Exposure: existing dermatitis
Emergency First Aid Procedures: For skin exposure, flush with large volumes of water, then was with soap and water.
For inhalation, contact physician and remove to fresh air. For ingestion, do not induce vomiting and contact physician immediately.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE
Handling of Accidental Material Release of Spillage: Use absorbent to contain.
Waste Disposal Method: Follow federal, state, and local ordinances and regulations.
Handling or Storage Precautions: Avoid skin, eye contact. Do not store in high heat areas.
Other Precautions: Keep containers closed when not using the material to avoid spills

SECTION VIII – CONTROL MEASURES
Respiration Protection:
Ventilation: Local Exhaust: Recommended
Eye Protections: Recommended
Other Protective Clothing or Equipment: Routine health care personnel garb is adequate
Work/Hygienic Practices: Routine health personnel treatment procedures as commonly practices in the dental health care industry.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)

Emergency Telephone Number: 800-845-5172
Information Telephone Number: 800-845-5172