



MR. Dental Supplies Limited

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MR. DENTAL GLASS IONOMER CEMENT

INSTRUCTIONS

MR. Dental CERAM I

Glass Ionomer Luting Cement

Introduction

A two-part powder-liquid translucent material recommended for use as adhesive permanent luting cement. Usages encompass cementation of posts, crowns and bridges, veneers and other facings, cementing composite inlays and onlays and orthodontic bands, and for the lining of the dentinal wall of cavity preparations for composite restorations.

Features and Benefits

- A powder/liquid two part mix, the powder being readily incorporated into the liquid for easy usage
- Chemically bonds to both dentine and tooth enamel
- Chemically bonds to precious metal and porcelain restorations
- Long working life, low film thickness, low viscosity
- Mechanically bonds to composite restorative materials
- Quickly reaches neutral pH following placement on tooth
- Releases fluoride ions
- Can reduce sensitizing by providing a firm foundation for composites, so affording good pulpal protection and insulation
- When used to cement inlays/onlays the incidence of micro-leakage is drastically reduced
- Can be used as liner under composites
- Complies with ISO 9917: 2007 (Luting)

Contents

25g Powder
15 ml Liquid
Powder Measure
Mixing Pad
Instruction Sheet

Mixing and Setting Time

Mixing Time 30 seconds
Working Time 4 minutes
Initial Set Time 8 minutes
Ambient Temperature 23° C: Relative Humidity 50%

High temperature and lower relative humidities tend to accelerate these working and setting times.

Mixing Ratio

Powder/Liquid ratio 2/1. Mix 1gm powder with 0.5gm liquid. Minimum recommended quantities are 4 scoops powder with 5 drops of liquid or 0.4 gm. powder with 0.20 gm. liquid, or other quantities in the same ratio.

Issue No:

Date:

Signed By:

Approved By:

Manufacturers of Meadway, Medi-Lux and V-Lux dental materials & products.
Also manufacturers of tooth-making equipment.
Registered in England No. 3299060



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Mixing Method

Before each use, fluff the powder up by shaking the bottle several times. Allow time to settle before opening cap. Scoop powder from powder bottle using measuring spoon, level off and place onto mixing pad. Repeat as required. Replace cap. Remove cap from liquid bottle, invert and gently squeeze to provide required number of drops of liquid onto mixing pad. Replace cap to prevent liquid evaporating and causing nipple blockage. Using metal spatula, mix in successive powder portions until material reaches a smooth, creamy consistency. The mixed material should have a glossy appearance and is ready for immediate use. Apply to clean dry restoration and seal onto dry prepared tooth. Carefully trim away excess at its rubbery stage. If freshly applied cement is visible between tooth and fixed prosthesis, coat the exposed surface with moisture-proof varnish.

Notes

Before cementation, line any exposed pulpal areas with MR. Dental Calcium Hydroxide. The application of MR. Dental Glass Ionomer Conditioner Bond to any exposed dentine/enamel surfaces with cotton pledgets for 10 or so seconds, rinsing with water and drying will assist with the molecular bonding of the cement to the exposed tooth structure. The cementation site must be isolated and thoroughly dried, the use of rubber and retraction is recommended.

Caution

The mixing spatula should be rinsed with water and wiped clean after use to prevent any mixed material from adhering to it. Ceram I contains Polyacrylic Acid Powder and liquid. Avoid contact with skin and eyes. After accidental contact, irrigate well with water and if necessary seek medical advice. Avoid inhalation of powder/dust, which may cause irritation of the airways. The powder bottle contains a desiccant capsule. Do not remove this or break it open.

Handling and Storage

The powder is hygroscopic; keep container closed. Do not remove desiccant capsule. Evaporation of liquid will leave residue blockage in nozzle. Replace cap and tighten after use. Store both materials in a cool dry place. Clean up any liquid spillage with absorbent towel, rinse surfaces and dry. Sweep up powder spillage carefully wearing gloves. Consult suppliers HSDS for further details on product health and safety and material disposal instructions.

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