

QualiSense MODGLASS F Hand-Mix

Light Cure Resin Modified Glassionomer Filling Cement

Recommendation for Use

MODGLASS F SYSTEM consists of MODGLASS F and GLASS PRIME.

MODGLASS F is a light cured resin reinforced glassionomer filling cement. Beside its excellent fluoride release and the excellent biocompatibility as glassionomer cement MODGLASS F has also good chemical bonding to dentine and enamel and a tight seal at the dental margins. Because of its radiopacity it ensures easy postoperative diagnosis.

GLASS PRIME is a light cure bonding agent for dentine and enamel to enhance the bond between light cure resin modified glassionomer cements and tooth structure.

Indications:

- Primary teeth: restorations of Class I, II and V
- Long-term restoration in non-load bearing areas of Class I and II
- Restoration of Class V
- Intermediate restorations
- Sandwich material for heavy stress bearing Class I and II cavities
- Core build-ups

Contraindications / side-effects

In singular cases, MODGLASS F may cause a sensitizing reaction in patients with a hypersensitivity to any of the ingredients. In these cases, the material should not be used.

Irritations resulting from direct contact with the pulp cannot be ruled out. Therefore for pulp protection areas close to the pulp should be covered with thin layer of calciumhydroxide material.

Interaction with other materials

Avoid direct contact with products containing eugenol since eugenol impairs the setting of MODGLASS F.

Do **not** mix the powder or liquid of MODGLASS F with any other glassionomer product.

1. Tooth Preparation

Prepare the cavity. Rinse thoroughly with water and dry gently, but do not desiccate.

For pulp protection areas close to the pulp should be covered with a thin layer of calciumhydroxide material (e.g. CH LINER) or MTA cement (e.g. MTA U).

Optional:

To improve adhesion particularly in case of deeper cavities the light cure bonding agent GLASS PRIME can be applied.

2. Dispensing and Mixing

The powder/liquid ratio is 3.6/1.0. This can be obtained by mixing 1 level (lightblue) scoop of powder and 2 drops of liquid.

Note:

The spoon dosage is only an approximate reproduction of the nominal mixing ratio.

For accurate dispensing of MODGLASS F powder shake the bottle to loosen the powder. Overfill the spoon with the powder, level the powder for using the collar at the top of the bottle and carry it onto the mixing pad. Avoid compressing powder into the spoon with the inside wall of the bottle.

For dispensing of MODGLASS F liquid turn the bottle vertically with the tip about 5cm above the mixing pad. Steady your hand and squeeze the bottle gently to dispense one drop. If any bubbles are present, lightly tap the bottle with the fingers holding it. Discard drops that contain bubbles and are obviously not full-sized.

Use a small spatula to rapidly mix all the cement powder into the liquid. The mixed cement should be thixotropic and have a smooth consistency and glossy appearance. Total mixing time is 30 sec.

After use, tightly close both liquid and powder bottles to prevent exposure to moisture.

3. Filling and Finishing

Mix the required amount of MODGLASS F and apply it into the prepared cavity by using a suitable placement instrument.

Please see to it, that no air bubbles will be incorporated.

MODGLASS F should be placed in the cavity within the working time (2:30 minutes from start of mixing at 23 °C or 74°F). A transparent matrix may be used.

Cure for 20 sec with a visible light-curing device (wavelength range 400–500 nm, light intensity min. 1000 mW/cm²). Net setting time without any light is approx. 4:00 min.

In case of cavities with a depth of more than 2 mm curing in incremental layers is strongly recommended. Cure each layer separately. In order to

improve the self-adhesion, this is very important for the first layer of 2 mm.

Note:

Higher temperatures will shorten the working time, lower temperatures will prolong the working time.

An overextended working time will cause the loss of adhesion to the dental enamel and the dentine.

After MODGLASS F has set, remove matrix where applicable and perform finishing under water spray using standard techniques.

Optional: a layer of GI COAT can be applied after the finishing and subsequently light-cured for 20 seconds.

4. Warnings

- This product is to be applied only by a dental professional in the manner as described in this instruction.
- Unpolymerized material may have an irritant effect and can lead to sensitization against methacrylates.
- Avoid contact with skin, mucous membrane and eyes
- If the material comes into contact with skin, In case of contact, remove the material with absorbent cotton soaked in alcohol and rinse with water. If the material comes into contact with eyes, immediately rinse with copious amounts of water and seek medical advice if required.
- Commercial medical gloves do not protect against the sensitizing effect of methacrylates.

5. Storage

Store MODGLASS F in a cool and dark place at 4-25 °C (39-77 °F). Temperature should not exceed 25 °C (77 °F).

Do not use after expiry date.

Warranty

DS Dental Supply GmbH warrants this product will be free from defects in material and manufacture. DS Dental Supply GmbH makes no other warranties including any implied warranty of merchantability or fitness for a particular purpose. User is responsible for determining the suitability of the product for user's application. If this product is defective within the warranty period, your exclusively remedy and DS Dental Supply GmbH's sole obligation shall be repair or replacement of the DS Dental Supply GmbH product.

Limitation of Liability

Except where prohibited by law, DS Dental Supply GmbH will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability.

Keep away from children!

For dental use only!