

## QualiSense DC CEM (MINIMIX)

### Dual Cure Composite Cement

#### Recommendations for Use

DC CEM is a dual cure easy flowing microhybrid composite for permanent cementations of inlays, onlays, crowns, bridges and veneers.

DC CEM is a radiopaque and relatively high filled composite of very high strength.

DC CEM is based on methacrylate resin and inorganic filler particles of 0.05-1 µm. The total filler load is 61 % and the total filler volume 41 %. DC CEM meets the requirements of DIN EN ISO 4049.

#### Preparing the MINIMIX-Syringe

Remove the cap of the MINIMIX-syringe and throw it away (do not use it again!). It is replaced by a special 1:1 mixing cannula. Turn the cannula 90° until it locks in position. The material is now ready for application.

The working time (23°C (74°F)) in the self cure mode is 2:00 minutes from start of mixing.

#### Note:

Store used syringe with fixed used mixing cannula. Discard the first 2-3 mm (about the size of a peppercorn) of the extruded material. This has to be done for each new mix.

#### Cementation of Inlays, Onlays, Crowns, Bridges and Veneers

##### 1. Preparing

Prepare the luting side areas of the restoration (inlay, onlay, crown, bridge or veneer) with a suitable bonding agent:

Restorations made from:

- Zirconia with e.g. ZirconPrime M
- Silicate ceramics with e.g. CERAMIC PRIME
- Metal (precious or non-precious metal) with e.g. MetalPrime M

##### 2. Cementing of the indirect restoration

##### 2.1. Cementing of Inlays, Onlays, Crowns and Bridges

Apply a suitable dual cure bonding agent (e.g. ADHESIVE S2) to the prepared tooth surface.

For cementing (preparation of the restoration see 1.) apply a uniform coating (0.5 mm) of DC CEM on the luting side of the inlays, onlays, crowns and bridges and on the primed tooth areas. Seat the restoration under light pressure and retain it in place until the cement has completely cured. Remove excess material. Light cure all marginal areas of the restoration from each direction for 20 seconds with a polymerization unit (wavelength range 400-500 nm) with a light intensity of at least 1000mW/cm<sup>2</sup>. The dual cure cement system will auto cure within 4 minutes.

##### 2.2. Cementing of Veneers

Optional try-in the veneers with a try-in gel. Avoid gingival contact to prevent bleeding. Rinse try-in gel off the enamel surfaces with water. Thoroughly clean the veneer and the prepared tooth with water spray and dry with oil-free air.

Isolate the teeth to be veneered with interproximal strips to protect adjacent teeth (not being veneered) from the etchant and bonding agent.

Apply an etchant (e.g. ETCHING GEL) onto the enamel areas to be veneered. Leave the etchant in place for 15 seconds, and rinse with plenty of water. After drying place a thin coat of suitable bonding agent (e.g. UNIVERSAL ADH) as described in the corresponding user instruction before application of DC CEM.

Remove matrix strips prior to placing veneers on teeth. This step assures complete and passive seating of the veneer, even in multiples.

After placement of the veneer, light cure for 20 seconds with a polymerization unit (wavelength range 400-500 nm) with a light intensity of at least 1000mW/cm<sup>2</sup> through tooth structures and the veneer material. If the light through the veneer material is not sufficient or a light cure cannot be guaranteed to be sufficient, DC CEM self-cures in 4 minutes. After curing finish and polish margins in the usual manner.

#### Additional Notes

- Do not use any resin to adjust viscosity of composite restorative material.
- Do neither store the composite material in proximity of eugenol containing products, nor let the composite allow to come into contact with materials containing eugenol. Eugenol impairs the hardening of the composite.
- Contact of resin pastes with skin should be avoided, especially by anyone having known resin allergies.

#### Storage

Do not store above 20 °C (68 °F). Store unopened material in the refrigerator.

Opened cartridges have to be used up within 3 months.

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.

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**Keep away from children!**

**For dental use only!**