

Kiero Cem White – Micro hybrid composite cement for intraoral and extraoral use

Description:

Kiero Cem White is a **dual cure** (light and self-curing), permanent, **strongly radiopaque** and versatile cement, purpose made for the adhesion between tooth structure (dentin/enamel) and ceramic, metal and composite. It is based on methacrylate resin and inorganic filler particles of 0.01-1 µm which guarantee a very high mechanical strength. It is available in a white opaque colour.

Properties:

- This universal cement stands out for its strong adhesiveness and biocompatibility, meeting highest standards and requirements.
- Due to the white opaque colour it adapts harmonically to the framework structure.
- It allows the dentist to fix the margins of the inlays reliably by means of a LED lamp once the self-curing has begun.
- The excess cement can be easily removed after brief light exposure (approx. 5 seconds).
- It is very user-friendly because of its 2 minutes processing time and 3 minutes curing time.
- These properties are suitable for the adhesion of inlays, abutments and attaches. This thixotropic property comforts working particularly on small objects.

Indications:

The *Kiero Cem White* produces a strong and permanent adhesion between the tooth structure and ceramic, composites and metal.

- Precious metals, semi-precious metals, non-precious metals
- Feldspar ceramic and hybrid ceramics
- Light cured composites
- Crowns and bridges
- Metal and ceramic inlays
- Veneers
- Abutments, interfaces

Application observation for intraoral use (Dentist):

Prepare the luting side areas of the restoration (inlay, onlay, crown, bridge or veneer) with a suitable bonding agent as described in the instructions for use.

Preparation of the syringe:

Remove the cap of the syringe and throw it away (**do not use it again!**) and replace it by a special 1:1 mixing cannula. Turn the cannula by 90° until it locks in position. **Note:** Store used syringe with fixed used mixing cannula. Discard the first 2-3 mm of the extruded material (about the size of a peppercorn). This has to be done for each new mix.

Cementing of the indirect restoration:

Prepare the tooth surface with a suitable dual cure bonding agent as described in the instructions for use. For cementing the restoration (preparation of see preceding section) apply a thin coating (approx. 0.5 mm) of *Kiero Cem White* on the luting side of the inlays, onlays, crowns and bridges and on the tooth areas treated with a primer. Seat the restoration under light pressure and retain it in place until the cement has completely cured. Remove the excess material. Light cure all marginal areas of the restoration for 20 seconds from each direction. The dual cure cement system will auto cure within **3 minutes**.

Cementing of Veneers:

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 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 as described in the corresponding user instruction before applying the *Kiero Cem White*. 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 dental curing unit through tooth structures and the veneer material. If the light through the veneer material is not sufficient a light cure cannot be guaranteed. *Kiero Cem White* self-cures within **3 minutes**. After curing finish and polish margins in the usual manner.

Processing information for extraoral use (Dental technician):

Kiero Cem White can be used e.g. for bonding of secondary and third structures during the making of telescopic prosthesis. Sandblast the surfaces to be bonded with aluminium oxide (50µm-110µm). After that remove with vapour or acetone possible residues of dust and grease and let it dry thoroughly. Then check – still without the cement – the correct fitting of the single parts considering the needed gap. Protect the not to be bonded parts with a layer of Vaseline. Finally you apply a thin coating (0.5 mm) of *Kiero Cem White* on the clean, dry and sandblasted surface avoiding the forming of bubbles. Attention: Do not move the pieces to be unified once fixed. Then harden it using a light curing device (wavelength between 320-520 nm) for at least 90 seconds. Light curing time can differ depending on the applied light machine. The inhibition layer can be removed afterwards with an acetone moistened cloth.

Side effects and contraindications:

In case of irritation or known allergies against one of the components of this product this product should not be used. Dental adhesives should not get into contact with mucous membranes, saliva or any other buccal fluids because it may cause a significant reduction of adhesiveness. Do neither store the unpolymerized 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.

Storage:

Do not use after the expiration date. Do not freeze. Store at a temperature of between 4 and 20°C in a dry place, preferably in a refrigerator. Use within 3 months after opening.

Presentation:

1 double-chamber-syringe with a total of 5 ml. 10 mixing cannulas.

Importation and distribution:






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	Batch description		Manufacturer		Recommended storage time
	Expiry date		Read instructions		

Warranty

P.L. Superior Dental Materials GmbH warrants that this product be free from defects in material and manufacture. P.L. Superior Dental Materials GmbH shall not assume any other warranties including any implied warranty of merchantability or fitness for a particular purpose. The user is responsible for determining the suitability of the product for user's application. If this product is defective within the warranty period, your sole remedy and P.L. Superior Dental Materials GmbH sole obligation shall be to repair or replace the P.L. Superior Dental Materials GmbH product.

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