

**PRODUCT INFORMATION**

**OliZircore Nano** is a dual cure high radiopaque flowable microhybrid composite material with nano particles (nano-zirconium dioxide, nano-calciumfluoride) for core-build-up and cementation of posts. Due to its excellent mechanical properties final crown preparation can be carried out more precise. OliZircore Nano is also suitable for cementing of crowns and bridges, inlays and onlays if there are no high esthetic requirements.

OliZircore Nano is based on poly- and difunctional methacrylates and inorganic filler particles of 0.02-10 µm. The total filler content is 64 % by weight and 48 % by volume. Delivered in auto-mixing 1:1 MINIMIX-syringes it can be easily dispensed and applied directly. OliZircore Nano exhibits a short setting time without high heat generation. The dual cure properties enables the dentist, also to carry out cementations and core build ups in cases where a light cure cannot be guaranteed to be sufficient.

OliZircore Nano meets the requirements of DIN EN ISO 4049.

**INDICATIONS**

Material for core build-ups and cementing of posts

**CONTRAINDICATIONS**

The placement of OliZircore Nano is contraindicated if a dry working area or the recommended application technique are not possible. Also do not use OliZircore Nano if the patient is known to be allergic to any of the ingredients.

**SIDE EFFECTS**

In singular cases, OliZircore Nano 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 a thin layer of calciumhydroxide material.

**INCOMPATIBILITY WITH OTHER MATERIALS**

Do not use in combination with substances containing eugenol because eugenol inhibits the polymerization of the composite. Neither store the composite material in proximity of eugenol containing products, nor let the composite allow coming into contact with materials containing eugenol.

**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 supplied 1:1 mixing cannula. Turn the cannula 90° until it locks in position. The material is now ready for application.

**Note:** store used syringe with fixed used mixing cannula. Discard the first 2-3 mm of the extruded material. This has to be done for each new mix.

Store used syringe with fixed used mixing cannula in the dark.

**The working time (23°C (74°F)) of OliZircore Nano in the self cure mode is 1:30 minutes from start of mixing.**

**1. POST CEMENTATION****1.1. Isolation**

Use of a rubber dam to isolate the tooth is strongly recommended.

**1.2. Root Canal Preparation**

Refer to directions of the selected post manufacturer.

Remove all existing old restorations and decay from the tooth. Prepare and clean the root canal with e.g. sodium hypochlorite solution, rinse and remove excess solution from the canal with a soft paper tip.

Recommended bonding agents for conditioning are:

- Light cure universal adhesive to be used with the self-etch technique, with preceding selective enamel etching or with the total-etch technique (if required in combination with a catalyst that provides chemical hardening).
- Dual cure bonding system (e.g. combination OliBond + OliActivator) for the Total-Etch-Technik in combination with etching gel (e.g. OliEtch).
- A self-etching dual cure adhesive.

Apply the bonding agent according to the corresponding instructions.

**1.3. Post Cementation**

Prepare the selected post according to manufacturer directions.

OliZircore Nano is applied into the prepared root canal and onto the post. Seat the post careful into the canal and maintain firm pressure until the post is seated. OliZircore Nano self-cures within **3:30 minutes**. For post stabilization light cure the coronal part of the cemented post for **20 seconds** with a polymerization unit (wavelength range 400-500 nm) with a light intensity of at least 1000mW/cm<sup>2</sup>.

As soon as the OliZircore Nano has set proceed with the core-build-up procedure.

**2. CORE-BUILD-UP****2.1. Isolation**

Use of a rubber dam to isolate the tooth is strongly recommended.

**2.2. Cavity Preparation**

Remove all existing old restorations and decay from the tooth. If necessary place any pins or posts. Refer to directions of the selected post manufacturer.

**2.3. Pulp Protection**

Cavity floor of deep excavations should be covered with a thin layer of calciumhydroxide material.

**2.4. Application of a Bonding Agent**

Recommended bonding agents for conditioning are:

- Light cure universal adhesive to be used with the self-etch technique, with preceding selective enamel etching or with the total-etch technique (if required in combination with a catalyst that provides chemical hardening).
- Dual cure bonding system (e.g. combination OliBond + OliActivator) for the Total-Etch-Technique in combination with etching gel (e.g. OliEtch).
- A self-etching dual cure adhesive.

Apply the bonding agent according to the corresponding instructions.

**Note:** it is essential that the primed dentine and enamel surfaces are dry and contaminant free for the application of OliZircore Nano.

### 2.5. Application

Place the mixing cannula directly into the preparation and press out the paste.

OliZircore Nano is automatically mixed when dispensed with slight and even pressure. Filling should occur from bottom upwards to prevent voids. To facilitate placement of OliZircore Nano place a matrix band around the prepared tooth.

OliZircore Nano may be contoured by using a composite instrument. A flat-ended interproximal carver is recommended.

Place OliZircore Nano directly into the preparation and allow the system to self cure for **3:30 minutes**. After that the material should be light-cured (**40 seconds**) with a polymerization unit (wavelength range 400-500 nm) with a light intensity of at least 1000mW/cm<sup>2</sup>. With this technique an optimum of physical properties will be obtained.

An explorer can be used to test that the OliZircore Nano has completely set. Remove the matrix not earlier than the material has set.

Final core preparation on the OliZircore Nano can be carried out by using crown preparation burs.

### ADDITIONAL NOTES

- Do not use any resin to adjust viscosity of composite restorative material.
- Contact of resin pastes with skin and gingival tissue 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 expiration date.

*Keep away from children! For dental use only!*

### PACKAGING AND REFERENCE NUMBER

1x 5 ml syringe, 5 mixing tips, 2x 5 IOT, this instruction for use - **OL049** / A3

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