

**e-on® Universal Nano Hybrid Composite**

In accordance with DIN EN ISO 4049

Carefully read instructions prior to use

**Product description:**

**e-on Universal Nano Hybrid Composite** is a light-cured filling material combining proven composite and innovative nano technology. **e-on Universal Nano Hybrid Composite** is radiopaque, contains 87 % w/w inorganic fillers (= 71.4 Vol. %) in a methacrylate matrix (BIS-GMA, TEDMA, UDMA) and cures under blue light (halogen or LED).

**e-on Universal Nano Hybrid Composite** is used with a dentin/enamel bond. **e-on Universal Nano Hybrid Composite** is available in syringes and in caps for direct application.

**SHADES:**

**e-on Universal Nano Hybrid Composite** is available in

red-brown shades A1, A2, A3, A3.5, A4

yellow shades B1, B2, B3

gray shades C2, C3

dentin shade D2, D3

incisal I

opaque shades OU

bleach shade BL

**INDICATIONS:**

- Filling class I to V cavities
- Reconstruction of traumatically affected anteriors
- Facetting of discolored anteriors
- Correcting shape and shade for better esthetic appearance
- Locking, splinting of loose anteriors
- Repairing veneers
- Filling deciduous teeth
- Core build-up under crowns
- Composite inlays

**CONTRAINDICATIONS:**

**e-on Universal Nano Hybrid Composite** should not be used if the recommended application technique cannot be used or if the patient has a known allergy to any of the ingredients (BIS-GMA, BHT, camphor quinone, UDMA, TEDMA).

**PREPARATION/SHADE SELECTION:**

Clean the teeth to be treated. Mark occlusal contact points (posterior area); a minimal separation facilitates the design of the approximal contact and placing of the matrix. Before anaesthesia, moisten the **e-on Universal Nano Hybrid Composite** shade guide and match the shade to the moist, clean tooth in daylight.

**Drying:**

Ensure that the working field is dry. Using a rubber dam is recommended.

**Cavity preparation:**

Generally, cavity preparation should be carried out according to the rules of the adhesive filling therapy, i.e. minimally invasive to conserve healthy tooth substance. Bevel the enamel margins on anteriors and round off the preparation margins on posteriors. Non-carious cervical lesions do not have to be prepared; thorough cleaning is sufficient here. Afterwards, clean and dry the cavity.

**Lining:**

A calcium hydroxide lining should be applied in proximity of the pulp. Place a layer of stable cement over the lining. Due to their fluoride release, glass polyalkenoate (glass ionomer) materials are recommended.

**Bond material:**

**e-on Universal Nano Hybrid Composite** is used in adhesive technique with a dentin/enamel bond. All light-curing bonding materials may be used. Follow the respective instructions for use with regards to preparation (etch technique) and application.

**Application of e-on Universal Nano Hybrid Composite:**

Let the material reach room temperature before application.

Place a matrix on cavities in the approximal area. Using translucent matrices is advantageous (smooth surfaces). Apply the chosen shade of **e-on Universal Nano Hybrid Composite** (see shade selection) and adapt it with a suitable instrument. Apply and polymerize fillings of more than 2 mm in layers.

**Light-curing:**

Conventional polymerization devices are suited for light-curing this material. The light output should be a minimum of 500 mW/cm<sup>2</sup> on halogen polymerization devices and 300 mW/cm<sup>2</sup> on LED devices. The curing time is a minimum of 20 sec per layer, for opaque shade OU a

minimum of 40 sec. Hold the light emission tip of the device as close as possible to the surface of the filling. If the distance is more than 5 mm, the curing depth may be compromised. Incomplete curing may lead to discoloration and pulpitis-like complaints.

**Finishing:**

The filling can be finished and polished immediately after removing the shaping aids (e.g. fine or extra fine diamond burst, polishing disc), with cooling provided. The margin of the filling or the entire tooth should be fluoridated as a final step.

**e-on Universal Nano Hybrid Composite** can be used for direct and indirect inlays according to customary methods. The physical stability can be improved by the usual external (additional) curing.

**INFORMATION, PRECAUTIONARY MEASURES:**

- No known side effects. Hypersensitive persons may develop sensitivities.
- Phenolic substances, especially eugenol- or thymol-containing preparations interfere with curing filling composites. The use of zinc oxide eugenol cements or other eugenol-containing materials in combination with filling composites should be avoided.
- Fillings exposed to occlusal forces should be checked at least once a year for early detection of changes.

**STORAGE:**

Store at temperatures between 39°F - 73°F (4°C - 23°C). If refrigerated, the material must be allowed to reach room temperature before use. To avoid exposure to light and possible polymerization, syringes should be closed immediately after dispensing. Do not use **e-on Universal Nano Hybrid Composite** after the date of expiration.

This material has been developed solely for use in dentistry. Processing should be done strictly according to the instructions for use.

Benco Dental™ recognizes its responsibility to replace products if proven to be defective. Benco Dental™ does not accept liability for any damage or loss, directly or indirectly, stemming from the use of or inability to use the products described. Before using, it is the responsibility of the user to determine the suitability of the product for its intended use. The user assumes all risk and liability in connection therewith.

Descriptions and data constitute no warranty of attributes and are not binding.

**CAUTION: U.S. Federal Laws restrict this device to sale by or on the order of a dentist.**

No person is authorized to provide any information which deviates from the information provided in the instructions for use.

**Keep this material out of reach of children.  
For dental use only.**

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