

Product description

e-on Single Shade Universal is a light cure radiopaque composite for anterior and posterior restorations. It can be used for all natural tooth shades due to its continuous color matching properties. Besides its permanent gloss and tooth like opalescence. It has excellent physical properties and good handling features. High gloss polishability demands only little effort. It contains dimethacrylate based resins and inorganic fillers < 0.2 µm. The total filler content is 80 % by weight and 75 % by volume.

Radiopacity of e-on Single Shade is 200 % aluminum (radiopacity of enamel: ~200 % aluminum, of dentine: ~100 % aluminum).

e-on Single Shade Universal meets the requirements of **ISO 4049**, type 1, class 2, group 1.

Indications/Intended use

- Restorations of all cavity classes
- Direct veneers
- Diastema closure
- Repair of ceramic restorations (e.g. veneers, crowns)

Performance features

The performance features of the product meet the requirements of the intended use.

Contraindications

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 pulp capping material.

Patient target group

Persons who are treated during a dental procedure.

Intended users

This medical device should only be used by a professionally trained dental practitioner.

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.

Application

Preparation of Tooth

Clean the tooth with a fluoride-free polishing paste (e.g. flour of pumice with water).

Cavity Preparation

After isolation (best with a rubber dam) prepare the cavity with minimal tooth reduction.

For pulp protection areas close to the pulp should be covered with a with pulp capping material.

Apply a common adhesive for enamel and dentine bonding according to the corresponding manufacturer instructions.

The application of a universal adhesive is recommended. It can be used in combination with an etching gel or as a self-etching adhesive.

Application and Curing of e-on Single Shade Universal

In case of deep and extended cavities best results are obtained with an application of a base liner using a light cure resin modified cement or a light cure flowable composite, followed by the application of e-on Single Shade Universal.

In case of small cavities e-on Single Shade Universal can be applied directly.

Note:

In case of cavities of dark or discolored teeth use a blocker (e.g. eon Block) to ensure that the restoration may not appear dark.

Apply e-on Single Shade Universal in **layers of max. 2 mm**. Light cure each increment separately. e-on Single Shade Universal is easy to model. Place it by using a suitable instrument. Matrix strips may be used.

By using a polymerization unit (wavelength range 400-500 nm) with a **light intensity of at least 1000mW/cm²**, cure each increment separately for **20 seconds**.

Hold the light emission window as close as possible to the filling material.

Finishing

Depending on the shape of the area contour with finishing diamonds, flexible grinding discs or carbide burs.

Polish to high gloss with polishing discs or polishing brushes.

Storage

Do not store above 25°C (77°F). Protect from direct sunlight. Do not use after expiry date.

Close syringe immediately after use to avoid exposure to light.

Additional Notes/Warnings

- e-on Single Shade Universal capsules are for single use only due to hygienic reasons.
- The ambient light of the dental lamp may start polymerization of the composite.
- Do not use any resin to adjust viscosity of composite restorative material.
- Avoid contact with skin, mucous membrane and eyes.
- Unpolymerized composite may have an irritant effect and can lead to sensitization against methacrylates.
- Commercial medical gloves do not protect against the sensitizing effect of methacrylates.
- Keep away from children!

Composition

Dimethacrylates, prepolymerized resin, dental glass, silicon dioxide, photo initiators.

Disposal

Disposal of the product according to local authority regulations.