

# Instructions For Use

## Quadrant Anterior Shine

CE 0197

### Product description

Quadrant Anterior Shine is a light curing radiopaque composite filling material with fluoride release, specially designed for the restoration of anterior teeth. It is available in 15 shades (10 Vita™ shades, 2 opaque shades, 1 incisal shade, Bleach and Dark Shade) for optimal colour matching, packed in syringes of 4 g each or “single use” capsules of 0.25 g each.

### Composition

The basic composition of Quadrant Anterior Shine is as follows:

Function	Raw Material	% Mass
Monomer	BIS-GMA	8.6
Monomer	Tri ethylene glycol Di methacrylate (= TEGDMA)	8.7
Monomer	Urethane Di methacrylate (= UDMA)	6.4
Filler	Barium aluminium-silicate glass	9.5
Filler	Silicon dioxide	66.1
Catalyst	Camphor quinone	0.5
Catalyst	Butylated Hydroxy Toluene (= BHT)	0.1
Pigment	Chrome antimony titanium buff rutile (CI Pigment brown 24)	0.2
Pigment	Copper iron chromite black spinel (CI Pigment Black 28)	
Pigment	Titanium dioxide	
Total		100.0

### Indication for use

- Restorations of class III, IV and V cavities, e.g.:
- reshaping
- shade correction
- direct veneer
- closing of diastema
- correction of development abnormalities (e.g. enamel dysplasia)

### Contra-indications & Warnings

#### **Contra-indications:**

#### Hypersensitivity- or allergic reactions

Quadrant Anterior Shine contains monomers capable of polymerization (e.g. multi-functional (meth)acrylic acid ester), which may cause irritations in particularly sensitive individuals. If signs of such irritations appear or if allergies to methacrylate-based resins are known to exist, the product should not be used. Wear suitable protective gloves and avoid skin contact. In the event of contact with the eyes or extended contact with oral mucous membranes, the affected area should be thoroughly rinsed with water. In case of contact with the eyes consult a doctor.

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## **Warnings:**

### Swallowing

A minor risk under normal conditions in the dental surgery. The patient will first react by retching. When swallowed, the Quadrant Anterior Shine will be excreted the natural way.

### Interactions with other materials

Do not use in combination with eugenol containing restoratives, as these impair the polymerization.


### Instructions for Use not respected

Cavex Dental Medical Devices (i.e. Quadrant Anterior Shine) are only used by dental professionals (dentist, dental technician, dental nurses) Dental professionals are well-trained and it can therefore be considered that dental professionals are known with the Cavex dental products and normal use is respected.

## **Handling**

1. Prepare the cavity according to the general directions for composite restorations. Clean and dry the cavity. The use of rubber dam is recommended. When restoring exposed root surfaces, a preparation may not be necessary.
2. Apply Quadrant Uni-SE-Bond or Quadrant Uni-1-Bond (or another universal bonding system) following the instructions for use for that product. The oxygen inhibited layer should remain intact.
3. Apply Quadrant Anterior Shine in layers of max. 2 mm onto the cavity walls. Intensely discoloured teeth may require a block-out with an opaquer.
4. Cure with an appropriate curing light. The curing time is indicated below. During polymerization, an oxygen inhibited layer develops on the surface. Do not touch or remove this layer, as it is essential for the chemical bond of the next layer.
5. Quadrant Anterior Shine can be finished and polished with fine diamonds, flexible discs and silicon polishers.

## **Labelling:**

	Symbol use explanation:
 <p>GHS07 Warning</p>	<p><b>GHS07</b> Skin Sens. 1 H317 May cause an allergic skin reaction.</p>

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## **Intended Patient(s)**

Quadrant Anterior Shine is specially designed for the restoration of anterior teeth. Quadrant Anterior Shine is a filling material and can be used for any patient suffering from cavities. The medical condition should be considered during the anamneses made by the dentist or dental specialist.

The dentists has to take in consideration if the product can be safely used on pregnant women and children under the age of 18.

## **Intended User(s)**

Quadrant Anterior Shine will only be used by dental professionals (dentist).

## **Clinical benefits**

The following clinical benefits can be considered for Quadrant Anterior Shine:

Patients:

- Durable and wear-resistant
- Natural fluorescence
- Perfect chameleon effect
- BPA-free (Bisphenol A)

As it is free of BPA (Bisphenol A), there are no possible hormone-like properties that mimic the effects of estrogenic in the body which can be caused by BPA.

Dentists:

- Perfect aesthetics
- Radiopaque  
Based on ISO 4049 standards we can guarantee with internal testing that Quadrant Anterior Shine is radiopaque.
- Prism-shaped filler particles for optimal light scattering
- Suitable for mono layering and multi-layering technique

## **Claims**

- Barium glass technology
- High gloss polishable
- Natural fluorescence
- Perfect chameleon effect
- Black light effect
- High elasticity
- Superior processing properties
- Thixotropic
- Color stable
- High fracture toughness
- Does not stick to instruments
- BPA free (Bisphenol A)

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## **Product characteristics and specifications**

Quadrant Anterior Shine is in full compliance with the EN ISO 4049 standard for Dentistry – Resin based filling materials.

<b>Characteristic</b>	<b>Product specifications</b>	<b>Release specifications</b>	
Appearance	Coloured, homogeneous paste	Coloured, homogeneous paste	
Biocompatibility	Must comply	Must comply	
Sensitivity to ambient light	60 ± 5 s unpolymerized	60 ± 5 s unpolymerized	
Depth of cure	1,5 – 5,0	1,5 – 5	mm
Flexural strength	50 – 250	50 - 250	MPa
Water sorption	0 – 40	0 – 40	µg/mm <sup>3</sup>
Water solubility	0 - 7,5	0 - 7,5	µg/mm <sup>3</sup>
Colour	According shade guide	According shade guide	
Colour stability	Must comply	Must comply	
Radio opacity – X-ray	More than 1 mm aluminium	More than 1 mm aluminium	mm

## **Combination products:**

### **Accessories:**

Quadrant Anterior Shine has the following accessories which can be used in combination with the product:

- Quadrant Anterior Shine shade guide

### **Combination products:**

Quadrant Anterior Shine can be used in combination with the following product(s):

- Quadrant Total Etch
- Quadrant Uni-1-Bond
- Quadrant Uni-SE-Bond

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## **Special advice**

According to EU Medical Device Regulation users/ patients are obliged to report serious incidents with a medical device to the manufacturer and to the competent authority of the country, the incident occurred.

## **Storage advice**

Do not store at temperatures higher than 25°C (77°F) and lower than -10 °C (14°F). Do not use this material beyond its expiry date. Avoid direct exposure to sunlight. Close containers firmly after use and keep out of reach of children.

## **Disposal information**

Dispose of in accordance with local regulations. Do not dispose of contents or partially emptied packaging in household waste or allow them to enter the sewage system.

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Made in The Netherlands

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