

Product Information
On

Quadrant Anterior Shine
(Light curing Composite Resin)

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1. Introduction

Dental composite filling materials such as Quadrant Anterior Shine is used in the adhesive restorative technique for the restoration of decayed teeth.

Quadrant Anterior Shine has been developed as a response to the demand for composites that are particularly suitable for the aesthetic and cosmetic treatment of front teeth. Quadrant Anterior Shine is indicated for the following restorations:

- Class III, IV and V restorations of anterior teeth
- Cervical cavities or defects involving root surfaces
- Congenital enamel defects, brushing defects, discoloration, erosion, diastema

Quadrant Anterior Shine is based on customary multifunctional methacrylate monomers (BISGMA) and contains inorganic fillers such as Ba-Al-F-silicate glass and highly dispersive Silicondioxide. The filler particle size is between 0.02 µm and 2 µm.

Quadrant Anterior Shine is developed and manufactured by Cavex Holland B.V. of Haarlem, The Netherlands, a Company that is certified according to the provisions of the Regulation (EU) 2017/745 concerning Medical Devices, against ISO 9001 and ISO 13485.

Quadrant Anterior Shine bears the CE marking of conformity.

2. Composition

The following materials are used in Quadrant Anterior Shine:

Function	Raw Material	% Mass
Monomer	BIS-GMA	8.6
Monomer	Triethylene glycol dimethacrylate (= TEGDMA)	8.7
Monomer	Urethane dimethacrylate (= UDMA)	6.4
Filler	Barium aluminium-silicate glass	9.5
Filler	Silicon dioxide	66.1
Catalyst	Camphorquinone	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	

3. Manufacturing

The manufacturing of Quadrant Anterior Shine is the result of gradually mixing all raw materials into a coloured, homogeneous paste. Quality controls ensure the good quality of Quadrant Anterior Shine after the manufacturing process.

4. Laboratory control

Of every single batch of Quadrant Anterior Shine is tested according to ISO 4049 specifications. The specification of the dental composite Quadrant Anterior Shine meets the requirements of the harmonized standard for dental restorative materials of all cavity classes (type 1, Class 2, group 1).

The following tests are performed in order to evaluate the stability at recommended storage temperature:

Characteristic	ISO 4049	Quadrant Anterior Shine	
Appearance	Coloured, homogeneous paste	Coloured, homogeneous paste	
Biocompatibility	Must comply	Must comply	
Sensitivity to ambient light	60 ± 5 unpolymerized	60 ± 5 unpolymerized	s
Depth of cure	1,5 - 5	1,5 - 5	mm
Flexural strength	50 - 250	50 - 250	Mpa
Water sorption	0 - 40	0 - 40	µg/mm ³
Water solubility	0 – 7,5	0 – 7,5	µg/mm ³
Colour	According shade guide	According shade guide	
Colour stability	Must comply	Must comply	
Packaging and marking	Must comply		

	Pigment Brown 24	Pigment Black 28	Titanium dioxide
B	0	0	0.1
A1	0.06	0	0
A2	0.05	0	0
A3	0.14	0	0
A3.5	0.17	0.001	0
A4	0.08	0.003	0
DS	0.10	0.004	0
B2	0.04	0.001	0
B3	0.05	0	0
C2	0.04	0.001	0
C4	0.09	0.005	0
OA2	0.07	0.002	0.1
OA35	0.10	0.002	0.03
I	0	0	0
D3	0.1	0.04	0

5. **Shelf-life test**

Based on all this experience, we are able to guarantee the good quality of Quadrant Anterior Shine for a period of 3 years, when kept in its original packaging, provided the capsule is unopened and stored in a cool and dry place.

6. **Quality Control**

A batch of Quadrant Anterior Shine, that has passed all the tests, is released for sales. In case of one or more requirements being not in specification, that batch is withdrawn and not sold.

7. **Statement of non-toxicity**

We hereby declare, that Quadrant Anterior Shine can be safely used and is non-toxic to the patient as well as to the dental team.