

TECHNICAL DATA SHEET

Product:	Alpha-Crown™ Crown & Bridge Material
Product Description:	Alpha-Crown™ is an auto-mix (catalyst and base) polymer-based temporary crown & bridge material with fluorescence which allows for naturally aesthetic, life-like temporaries. It contains 23% by volume of a blend (barium-alumino-silicate, quartz and silica) of fillers. The material is compatible with light cure flowable composites for repairs and is radiopaque for easy identification in radiographs.
Indications for Use:	For use in temporary crowns and bridges, temporary inlays and onlays, and long term temporaries.
Appearance:	1:1 ratio, 2-paste system Catalyst: glossy, white Base: glossy, natural Shades: A1, A2, A3, A3.5, B1, B3 and C2
Curing Mechanism:	Self cured by mixing base and catalyst together.
Shelf-Life:	30 months
Filler Type:	Barium-alumino-silicate, quartz and silica Filler % by Volume: 22.70 Filler Particle Range (µm): 0.02 – 5.00 Average Filler Particle Size (µm): 3.09
Main Composition (%w/w):	
Catalyst paste:	% w/w
Inorganic filler	35 – 45
Methacrylate and bisacrylate monomers	55 – 65
Initiator	<1
Inhibitor	<1
Base paste:	
Inorganic filler	35 – 45
Methacrylate and bisacrylate monomers	55 – 65
Accelerator	<1
UV stabilizer	<1
Colorants	<1
Physical /Mechanical Properties:	
Working time:	≥90 sec. at 23.5°C
Setting time:	≤5.5 min. at 23.5°C
Flexural strength:	≥50 MPa
Water sorption:	≤32 µg/mm ³
Solubility:	≤5 µg/mm ³
Color Stability:	Stable

Regulatory Classification:

This product is in conformity with the following standard(s) or other normative documents:

Code of Federal Regulations CFR 21 Part 820 – Medical Device Quality System Regulation

Code of Federal Regulations CFR 21 Part 872.3770 Temporary Crown and Bridge Resin

International Standard ISO 10477:2004/ Polymer-based crown and bridge materials