

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, and B1																						
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):	<table><tr><td>Catalyst paste:</td><td>% w/w</td></tr><tr><td>Inorganic filler</td><td>35 – 45</td></tr><tr><td>Methacrylate and bisacrylate monomers</td><td>55 – 65</td></tr><tr><td>Initiator</td><td><1</td></tr><tr><td>Inhibitor</td><td><1</td></tr><tr><td>Base paste:</td><td></td></tr><tr><td>Inorganic filler</td><td>35 – 45</td></tr><tr><td>Methacrylate and bisacrylate monomers</td><td>55 – 65</td></tr><tr><td>Accelerator</td><td><1</td></tr><tr><td>UV stabilizer</td><td><1</td></tr><tr><td>Colorants</td><td><1</td></tr></table>	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
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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																						

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Page 1 of 2

TDS-026 Rev.006

Associated Documents: NR 676, DCN 1787, 3473, 4880, 6333, 6405, 6843