

TECHNICAL DATA SHEET

Product:	Alpha-Core® SC
Product Description:	Alpha-Core® SC is a self-cure resin based composite for core build ups. The material exhibits ideal mechanical properties with high compressive and tensile strength yet maintains a dentin-like feel when cutting. Its ideal handling characteristics allow the materials to be placed with a syringe and, depending on the shade on the base paste, it can be used to match or contrast the color.
Indications for Use:	Alpha-Core® SC is a self-cure resin based hybrid composite specifically designed for core build ups and cementations of posts and pins.
Appearance:	2-paste system, 1:1 ration Catalyst: White Base: Natural, white or blue
Curing Mechanism:	Chemically cured by mixing base and catalyst together.
Shelf-Life:	36 months
Filler Type:	Barium alumino-borosilicate glass, quartz and silica.

Filler % by volume	55
Particle size range (μ)	0.02 – 5.00
Filler average particle size (μ)	3.3

Main Composition (%w/w):

Catalyst	
Inorganic filler	65 – 75
Methacrylate and bisacrylate monomers	25 – 35
Initiator	<1
Inhibitor	<1
Colorants	<1

Base	
Inorganic filler	65 – 75
Methacrylate and bisacrylate monomers	22 – 32
Accelerator	<1
Colorants	<1

Physical /Mechanical Properties: (Typical Values)

Working time	3 minutes at 23 °C
Setting time	3 minutes at 37 °C
Diametral tensile strength	43 MPa
Flexural strength	113 MPa
Compressive strength	218MPa
Water absorption	17.3 μg/mm ³
Water solubility	1.6 μg/mm ³

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