

TECHNICAL DATA SHEET

Product:	Alpha-Dent® Light Cure Band Adhesive
Product Description:	Alpha-dent® Light Cure Band Adhesive is a single paste resin-based, fluoride containing band adhesive. The single paste adhesive requires no mixing; resulting in reducing adhesive waste, consistent adhesive performance and no working time constraints. Alpha-dent® Light Cure Band Adhesive's distinctive blue color allows you to easily see the adhesive during banding, making clean up easy. When used with a high performance curing light, cure time is 20 seconds.
Indications for Use:	Alpha-dent® Light Cure Band Adhesive is a light-cured, resin-based, fluoride releasing paste used for cementation of orthodontic appliances to teeth.
Appearance:	Blue, opaque, medium viscosity paste.
Curing Mechanism:	Light cured with Halogen Light producing high intensity blue light in the 400-500 nm range of the visible light spectrum.
Shelf-Life:	30 months at 25°C and 60% relative humidity.
Filler Type:	Fluoride containing barium-alumino-silicate glass. Filler by Volume: 47% Filler Particle Range: 0.34 – 2.19 micron Average Filler Particle Size: 0.77 micron
Main Composition (%w/w):	
	Bis-GMA 18 - 28
	Inorganic filler 60 – 70
	Methacrylate monomers 25 - 35
	Thickeners 2 - 5
	Accelerator <1
	Photoinitiator <1
	UV Stabilizer <1
	Colorant <1
Physical /Mechanical Properties: (Typical Values)	
	Consistency 0.50 mm
	Sensitivity to ambient light >60sec.
	Depth of cure [actual] 5.11 mm/20sec.
	Bond strength to enamel 5.50 MPa