

TECHNICAL DATA SHEET

Product:	Alpha-Seal® Light Cure Pit & Fissure Sealant
Product Description:	Alpha-Seal® with fluoride is a light cure, resin-based Pit & Fissure Sealant. This sealant contains 50% radiopaque submicron fillers. The hard setting, wear resistant material has an ideal flowable viscosity for maximum coverage and protection to seal the pits and fissures of teeth susceptible to caries. The fluoride assists in caries prevention and the inhibition of enamel demineralization.
Indications for Use:	For sealing pits and fissures on teeth showing no decayed lesions.
Appearance:	Opaque-white or clear-colorless low viscosity resin.
Curing Mechanism:	Light cured by applying an external energy activated Dental Blue Light with minimum output 600 mW /cm ² and wavelength 400 – 500 nanometers.
Shelf-Life:	30 months
Filler Type:	Fluoride containing barium-alumino-silicate glass. Filler by Volume: 30.30% Filler Particle Range: 0.30 – 0.75 micron Average Filler Particle Size: 0.7 micron
Main Composition (%w/w):	Inorganic filler: 45 - 55 Methacrylate monomers: 45 - 55 Accelerator: <1 Photoinitiator: <1 UV Stabilizer: <1 Colorant: <1
Physical /Mechanical Properties:	Sensitivity to ambient light: >60 sec. Depth of cure [actual] (typical value): 4.5/20sec. Compressive strength (typical value): 265 MPa