

TECHNICAL DATA SHEET

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| Product: | Alpha-Seal® Light Cure Pit & Fissure Sealant |
| Product Description: | Alpha-Seal® 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. |
| 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: | Barium-alumino-silicate glass containing fluoride. 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 |

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