

TECHNICAL DATA SHEET

- Product:** Alpha-Dent® Light Cure Bonding Adhesive
- Product Description:** Alpha-Dent® Light Cure Bonding Adhesive is a versatile adhesive that is fast and easy to apply, and offers excellent bond strengths to dentin and enamel.
- Indications for Use:** Alpha-Dent® Light Cure Bonding Adhesive is a dental adhesive designed to bond light cured composite restorative materials to enamel and dentin.
- Appearance:** A low-viscosity liquid with color ranging from clear colorless to clear pale yellow.
- Curing Mechanism:** Light cured by applying an external energy activated Dental Blue Light with minimum output 600mW/cm² and 400 to 500 nanometers.
- Shelf-Life:** 30 months
- Filler Type:** None

Main Composition (%w/w):

Bis-GMA	18 – 28
Comonomers	60 – 80
Adhesive Monomer	< 5
Photoinitiator	< 1
Stabilizer	< 1

Physical /Mechanical Properties: (Typical Values)

Depth of Cure, mm (actual)	6.0
Bond Strength to Dentin, MPa	15
Bond Strength to Enamel, MPa	19.9

Regulatory Classification:

This product is in conformity with the following standard(s) or other normative documents:

International Standard ISO/ST 11405:2015 Dental Materials-Testing of Adhesion to Tooth Structure
European Standard EN 1641:2009 – Medical Devices for Dentistry – Materials
Code of Federal Regulations CFR 21 Part 820 – Medical Device Quality System Regulation
Code of Federal Regulations CFR 21 Part 872.3200 Resin tooth bonding agent