



TECHNICAL DATA SHEET

Product: Alpha-Dent® Light Cure Bracket Adhesive

Product Description: Light Cure Bracket Adhesive is a single paste resin-based bracket adhesive. The single paste adhesive requires no mixing; resulting in reduced adhesive waste, consistent adhesive performance and no working time constraints.

Indications for Use: Light Cured Bracket Adhesive is an orthodontic adhesive designed to bond metal, ceramic, and plastic brackets to enamel.

Appearance: Low-viscosity paste, ivory to pale-yellow in color.

Curing Mechanism: Light cured by applying an external energy activated Dental Blue Light with minimum output 600 mW/cm² and wavelength 400 to 500 nanometers.

Shelf-Life: 30 months

Filler Type: Blend of barium-borosilicate glass and silica

Filler % by Volume	56
Filler Particle Range, in micron (μ)	0.02 - 11
Average Filler Particle Size, in micron (μ)	11

Main Composition (%w/w):

Inorganic filler	65 – 85
Bis-GMA	15 – 25
Blend of multifunctional methacrylates	< 10
Adhesive monomer	< 1
Photoinitiator	< 1
Inhibitor	< 1
Colorant	< 1

Physical /Mechanical Properties:


Depth of cure, mm (actual)	5.6
Bond Strength, Bracket-Enamel, MPa	13

Regulatory Classification:

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

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

Signature/Date:

 / 10/09/20

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Position: Management Representative