



# TECHNICAL DATA SHEET

**Product:** Alpha-Dent® Light Cure Band Adhesive

**Product Description:** Alpha-dent® Light Cure Band Adhesive is a single paste resin-based 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 dental curing light with a minimum intensity of 600 mW/cm<sup>2</sup> in the 400-500 nm range of the visible light spectrum.

**Shelf-Life:** 30 months at 25°C and 60% relative humidity.

**Filler Type:** 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):**

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

**Regulatory Classification:**

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

Code of Federal Regulations CFR 21 Part 872.3275 – Dental cement  
Code of Federal Regulations CFR 21 Part 820 – Medical Device Quality System Regulation

**Signature/ Date:** John Pontikis / 10/09/20

**Name:** John Pontikis  
**Position:** Management Representative