

# TECHNICAL DATA SHEET

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| <b>Product:</b>                         | Alpha-Dent <sup>®</sup> Light Cure Bracket Bonding Resin   |
| <b>Product Description:</b>             | Alpha-Dent <sup>®</sup> Light Cure Bracket Bonding Resin is a resin-based bonding resin used in conjunction with Alpha-Dent <sup>®</sup> Light Cure Bracket Adhesive resulting in consistent adhesive performance and no working time constraints. |
| <b>Indications for Use:</b>             | Alpha-Dent <sup>®</sup> Light Cure Bracket Bonding Resin is used in conjunction with Alpha-Dent <sup>®</sup> Light Cure Bracket Adhesive as an orthodontic adhesive designed to bond metal, ceramic, and plastic brackets to enamel.               |
| <b>Appearance:</b>                      | Clear, pale-yellow liquid.   |
| <b>Curing Mechanism:</b>                | Light cured by applying an external energy activated Dental Blue with a minimum output of 600 mW/cm <sup>2</sup> and wavelength of 400 to 500 nanometers.  |
| <b>Shelf-Life:</b>                      | 36 months  |
| <b>Filler Type:</b>                     | None   |
| <b>Main Composition (%w/w):</b>         |  |
|   | Blend of methacrylate monomers < 99.5  |
|   | Photoinitiator < 1   |
|   | Polymerization Inhibitor < 1   |
| <b>Physical /Mechanical Properties:</b> |  |
|   | Specific Gravity 1.10  |
|   | Depth of Cure, mm 8.0  |
|   | Bracket-enamel bond strength, MPa 12.0   |