



Sole UK Distributors Of  
**REINHARDT-TECHNIK**  
 Metering, Mixing &  
 Dispensing Systems



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**Technical Data Sheet**

**VITRALIT VBB-1**

**Product Description**

**VITRALIT VBB-1** is a UV / visible light curable, multi-substrate glass bonder that exhibits excellent peel strength and exceptional flexibility producing tough, durable and moisture resistant bonds. The cured product is optically clear and demonstrates outstanding elongation under stress. It is recommended for applications where resistance to the extremes of thermal cycling are required. It is very well suited for use as a UV curable glass bevel bonder. It contains no acids, corrosive ingredients or hazardous materials. When cured, excess material is easily removed with a craft knife.

**VBB-1** will cure with either low power U V lamps or white light from standard fluorescent fittings. This unique on-curing ability eliminates any problems of under cure and subsequent bond failure in service.

**VBB-1** meets the requirement of BS 5713.

**Uncured Properties**

|                  |                   |
|------------------|-------------------|
| Viscosity        | 1,000 cps at 25°C |
| Resin            | Modified Urethane |
| Colour           | Clear - Amber     |
| Specific Gravity | 1.1 - 1.2 at 25°C |
| Flash Point      | 93°C              |

**Cured Properties**

|                     |  |
|---------------------|--|
| Durometer           | Shore A = 75                                       |
| Water Absorption    | Less than 1% (24 hour immersion, room temperature) |
| Service Temperature | -50°C to +150°C                                    |

**Curing Information**

| <b><u>Cure Mechanism</u></b> | <b><u>Substrates</u></b> | <b><u>Bond Gap</u></b> | <b><u>Time</u></b> |
|------------------------------|--------------------------|------------------------|--------------------|
| UV (40mw/cm <sup>2</sup> )   | glass - glass            | 0.0254 - 0.0508 mm     | 5 - 10 seconds     |
| Fluorescent Light            | glass - glass            | 0.0254 - 0.0508 mm     | about 1 minute     |

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No liability is accepted for any injury, loss or damage arising directly from the use of the Company's products or from the use of information given in our publications, which is intended to serve as a guide only. Customers should satisfy themselves by appropriate trials that the products are suitable for their intended use.

