



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



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Technical Data Sheet

VITRALIT 6441 UVT - Structural UV/Visible Light curing adhesive

VITRALIT 6441 UVT is a 100% solids, UV/Visible Light curable adhesive specially formulated to form high strength bonds between glass, steel, ceramic, stainless steel, aluminum and some plastics. Bonds prepared from VITRALIT 6441 UVT are strong, optically clear and resistant to moisture. VITRALIT 6441 UVT when used as a coating produces highly moisture resistant and protective results, ideal coating thickness is in the range of 0.05-0.5mm. The fully cured coating has a dry to touch surface. VITRALIT 6441UVT can be applied by a variety of methods including dipping, brushing, direct application from the bottle or through a dispensing valve.

UNCURED PROPERTIES

Composition	Aliphatic urethane acrylate/monomer blend
Viscosity	500-800 cps at 25°C(VT & Gel are thixotropic)
Appearance	Transparent liquid with slight amber color
Specific Gravity	1.1 to1.3 at 25°C
Flash point	Greater than 93°C
Toxicity	Refer to Material Safety Data Sheet

CURED PROPERTIES

Durometer	Shore D75-85
Water Absorption	Less than 1% (24 hour immersion)
Temperature Range	-40°C to 120°C
Elongation at Break	To be determined
Refractive Index	To be determined

CURING INFORMATION

<u>Cure Mechanism</u>	<u>Substrates</u>	<u>Bond Gap</u>	<u>Time</u>
UV (35-45mW/cm ²)	glass to glass	0.05-0.5mm	5-10 seconds

VITRALIT 6441UVT can be cured using a UV lamp with an output of between 35-45 mW/cm². The use of a blue filter is recommended to reduce the amount of glare from the lamp while still allowing substantial amounts of Visible Light to pass. When curing open layers of Vitralit 6441UVT in the thickness range 0.05-0.5mm the coated adhesive should be cured for a minimum of 60 seconds to produce a dry to touch surface.

Protective glasses and gloves should be worn.

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.

