



TDS21 FUSED GLASS TILE ADHESIVE March 2005

RegaBond UV Curing Fused Glass Tile Adhesive

1. PRODUCT DESCRIPTION

This adhesive is manufactured for bonding decorative Fused Glass Tiles to even surfaced flat glass. The material, when cured with Ultra Violet light, has a peelable excess adhesive.

RegaBond Fused Glass Tile adhesive is a high quality, resilient, flexible, water resistant UV light curing polymer. It has similar optical, light transmission and refractive index data to float glass. This material is formulated to cure using the UV-Tek range of UV curing equipment, marketed by Regalead Ltd. To facilitate easy removal of excess adhesive it is recommended that UV-Tek patented template materials are used.

RegaBond decorative Fused Glass Tile Adhesive is manufactured in the EEC.

2. APPLICATION

Glass and Fused Tiles to be bonded must be cleaned with UV-Tek Glass Cleaner. DO NOT use wire wool or solvents for cleaning. All surfaces to be bonded must be warm, dry and free of moisture - use a hairdryer if necessary. Position UV-Tek fused tile template (1mm thick) where you wish to bond the tile. Apply a thick cross shaped (+) line of adhesive into template cutout, followed by a further thick diagonal shaped (x) line of adhesive. Then apply a 15mm circle of adhesive to the underside centre of the Fused Tile. Quickly flip over the Fused Tile and horizontally lower into template. Leave for 10 seconds for the Fused Tile to settle and displace any air entrapment.

Do not press down on the Fused Tile.

Cure adhesive for 15 seconds, using UV-Tek Luminaire. **NEVER** cure from above. Wipe away excess adhesive and remove Fused Tile template.

Run UV-Tek knife blade around the Fused Tile perimeter to cut excess adhesive. Provide 2nd cure for 15 seconds. Peel away excess adhesive. Clean glass, Fused Tiles and template with UV-Tek Glass Cleaner.

3. CURE TIME**

4mm Float glass. (using 4mm safety worktop glass)
UV cure 1 x 15 seconds + 1 x 15 seconds approx.

4. TECHNICAL SPECIFICATIONS

Solvent free modified acrylic ester.

Flashpoint

> 85° C

Colour

Clear

Odour

Distinctive

Viscosity

1300 cps @ 21° C

Specific gravity

1.04 appx

Refractive Index

1.5 + / - 0.2

Light Transmission

> 99.8 %

Cure Wavelength

310 – 415 nanometers, typically UV – B / UV – A / Visible light.

Weather Test

This material is durable and will withstand in excess of 1000 hrs weather testing to ASTM G - 53 – 94 without breaking down. Test data available on request.

Flex Test

50mm sq Fused Glass Tile bonded to centre of 610 x 75mm x 4mm toughened glass. Glass pivoted in center 12mm high and distorted down at both ends to try to shear tile. Base glass broke, tile still bonded with no defects to the bond.

Containers

RegaBond Fused Glass Tile Adhesive is supplied in 200gm, black poly-bottles.

Limitations

This material will cure readily when exposed to U.V. Light, Visible Light and heat.
Protect the adhesive from indirect curing sources, such as sunlight, and other UV light generating sources, and heat.

Storage

6 months when stored in its original sealed container in a dark store at + 5° C. Ensure black bottle cap is replaced when not in use.

KEEP WELL AWAY FROM CHILDREN

5. HEALTH & SAFETY

This material is a mild irritant to skin & eyes. Refer to H.S. sheet No:- HS11

Wear safety gloves and goggles when using this product.

Information and recommendations are given in good faith and based on practical tests. No liability or responsibility can be assumed for results obtained in the use of products by person (s) whose methods are outside or beyond our control. It is the user's responsibility to determine the suitability of products. No warranty or guarantee is given as to the fitness of any goods for any particular purpose.