

## DIFFGLASS VINSTER

TechnicalData: DIFFCOR/CR/06-18

### Product Description:

DIFFGLASS VINSTER is vinyl ester resin based Glass Flake Coating designed to meet medium to high corrosive environment. DIFFGLASS VINSTER is excellent resistant to acidic condition.

### Application:

Pressure vessels, Brine and Chemical Tank Lining, Acid/Alkali splash & Spillage Mineral processing Industries, municipal waste treatment plants, Oil & gas production facilities

**DIFFGLASS VINSTER** is Vinster based glass flake coating. Broad resistance corrosion over wide range of PH and demineralised water. Improved elongation for equipment exhibiting frequent temperature change. Higher HDT and solvent resistance than standard resins. Improved toughness. Highly Corrosion resistant Glass Flake, providing better permeation resistance. Temperature range 20 °C to 120 °C.

<b>Technology</b>	vinyl Glass Flake
Chemical Type	Vinyl Ester
Appearance(Base)	White
Appearance(Activator)	colorless
Appearance(Mixed)	White
Components	Two component-requires mixing
Mix Ratio, by volume Resin: Hardener	98.5 : 1.5
Mix Ratio, by weight Resin: Hardener	98.5 : 1.5
Cure	Room temperature cure
Application	Chemical resistance

### TYPICAL PROPERTIES OF UNCURED MATERIAL

#### Base:

Viscosity: Sprayble/brushable  
Weight per liter: 1.5 kg/liter

#### Hardener:

Viscosity: liquid  
Weight per liter: 0.85 kg/liter

#### Mixed:

Viscosity: can be Spray/brush  
Coverage: 0.6 m<sup>2</sup> @ 1mm thick/1kg

### TYPICAL CURING PERFORMANCE

#### Curing Properties

Gel Time @ ambient temp minutes 50 to 60

#### Curing time vs. Temperature

Ambient temp	20°C	25°C	30°C
Pot life	55-60min	50-55min	45-50min
Full cure	18hrs	14-16hrs	10-12 hrs.

#### Typical cured properties of material

Compressive strength (ASTM D642) 4500-4800 Psi  
Flexural strength (ASTM 790) 5500-6000 Psi  
Hardness shore D (ASTM D2240) 80-85  
Tensile strength (ASTM D882) 3500-4000 Psi  
Elongation At break % ( ASTM D882) 1.2  
Shear strength (ASTM D1002) 2000-2200 Psi  
On grit blasted MS surface  
Abrasion resistance (ASTM D4060) 138 mg  
H-18 wheels, 1000 cycles  
Water vapor permeability( ASTM D1653) 0.00041

**Surface preparation:** Clean surface to remove oily, rust and any foreign particles. Abrasive blasting with compressed air to achieve surface Preparation of SA 2<sup>1/2</sup> or Metal surfaces should be grit blasted to a SSPC-SP5 or NACE #1. For Concrete surface should comply with moisture testing as prescribed by ACI Test Method 515, R- 16 "Dryness of Surface". Concrete surface profile of 100 to 120 grit sandpaper.

#### Application Procedure:

Pour activator into DIFFGLASS VINSTER base container. Mix thoroughly until a proper blend is attained after the saturated basecoat has dried, grind down any burrs that have appeared on the surface. For hand application use trowel / specially designed brush or for spray, 1 to 2 coats of a DIFFGLASS VINSTER, selected according to chemical exposure. Second coat can be applied as soon as first coat is tack free.