

## Product Information Leaflet

**SOLARTECH VE 55** is a UV Curing GRP (Glass re-inforced Plastic) Laminate containing high grade Novalac Epoxy Vinylester resins, fillers and glass re-inforcements which has been formulated to ensure excellent protection against corrosion, chemical attack and many other aggressive environments.

**SOLARTECH VE 55** is suitable for use on a wide range of substrates including steel, concrete, GRP, FRP, PVC glass and wood. The product is supplied on rolls and in its uncured state is a soft, malleable, easy to use material ready for application. The material can be easily cut to any shape using knives or scissors. Once fully cured SolarTech VE 55 also provides top quality resistance to abrasion and impact.

The ability to offer user friendly, one component, fast curing, seamless on site applications has attracted many clients to use the SolarTech UV Curing technology.

### Typical Applications:

- Chemical Storage Tanks
- Oil Storage Tanks
- Bund Walls
- Chemical spillage areas
- Above and below ground pipelines
- Roofs
- Splash Zones and Risers

And many others....



# SolarTech VE 55®

Product Data		
Appearance	Sheet Laminate	
Colour	Opaque	
Mix Ratio	One Component	
Curing Mechanism	Ultra Violet (UV). Natural or UV Lamp	
Material Thickness	1.7 - 1.9 mm.	
Weight	2.9kg/m <sup>2</sup>	
Packaging	Standard Roll 10m x 0.92m packed in cardboard box	
Technical Data		
	Typical Values	Test Method
Tensile strength	55 Mpa	BS 2782 - 1994
Flexural strength	> 130 Mpa	ASTM D790 - 03
Flexural Modulus	5.98 Gpa	ASTM D2344
Elongation at break	> 3%	BS 2782 - 1994
Coeff. Of Thermal expansion	2.9 10 <sup>-5</sup> Degree C	ASTM D696-03
Impact resistance	> 60 Kj/sqm	BS EN ISO 180
Hardness	> 60 Barcol	ASTM D2583-01
Compression strength	> 200 Mpa	ASTM D695-2002a
Adhesion to steel	> 14 Mpa	ASTM D4541-02
Water Vapour Permeability	0.28g/m <sup>2</sup> /24h/mmHg	ASTM E96
Heat distortion	> 145 Deg C	ASTM D648
Fire rating	Class 1	BS 476 pt 7:1997, ASTM E84
Flash Point	> 32 Deg C	ASTM D93
Heat resistance	Wet: 90 deg C	Dry: 200 Deg C
Chemical resistance	Excellent. Chemical resistance chart available on request	
Electrical Properties	Dielectric strength: 9KV/mm as per IEC 243	
	Arc resistance: greater than 180 seconds as per ASTM D495	
	Tracking resistance: greater than 600 volts as per IEC 112	
	Insulation resistance: 10 to the power of 13 ohms as per IEC 93	
Application Data		
	Please refer to the SolarTech Sheet Laminate ' Information for Use ' leaflet.	
	Available from your Solartech agent or from Solartech web site <a href="http://www.solartechuv.com">www.solartechuv.com</a>	
Handling / Storage		
Working life	Vigilant care should be taken to shield SolarTech VE 55 from direct sunlight or UV lamps during application as this will greatly reduce the working life of the material.	
Environment	Under no circumstances should SolarTech be applied in wet conditions or on wet substrates.	
Safety Precautions	Please refer to the product Material Safety Data Sheets for detailed information on handling, shipping and disposal.	
Storage	Store in cool, dry conditions ( not more than 25 Deg C ). Avoid storage near any heat source or sunlight. Always store material in its original packing in a horizontal position. Boxed material should be rotated 180 deg. Every 30 days for optimum condition.	
Shelf Life	12 months when stored as per manufacturers instructions.	



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