

Product Information Leaflet

SOLARTECH PW 55 is a UV Curing GRP (Glass Reinforced Plastic) Laminate containing high grade Isophthalic Polyester resins, fillers and glass re-inforcements and has been formulated to ensure excellent protection against corrosion, abrasion, impact and aggressive climatic environments.

SOLARTECH PW 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.

SOLARTECH PW 55 is “WRAS - Approved Material” and is highly recommended for use in applications in contact with Potable Water.

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:

- Portable Water Tanks and Pipelines
- Storage Tanks
- Insulation Protection
- Roofs
- Flooring
- Water and Weatherproofing
- General maintenance

And many others....



SolarTech PW 55®

Product Data		
Appearance	Sheet Lamination	
Colour	Grey	
Mix Ratio	One Component	
Curing Mechanism	Ultra Violet (UV). Natural or UV Lamp	
Material Thickness	1.7 - 1.9 mm.	
Weight	2.9kg/m ²	
Packaging	Standard Roll 10mx0.92m 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 ⁻⁵ 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 ² /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	Good. 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 www.solartechuv.com	
Handling / Storage		
Working life	Vigilant care should be taken to shield SolarTech PW 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.	
Approvals		
	"WRAS - Approved Material"	



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SOLARTECH Agent:

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