

## Product Information Leaflet

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

**SOLARTECH PE 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 PE 55 also provides top quality fire retardancy and low smoke emissions if exposed to flame.

**SOLARTECH PE 55** is highly recommended for use as protection to all types of insulation and also as a non-metallic cladding product.

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:

- All types of Insulation Protection
- Storage Tanks
- Pipe Support Protection
- Roofs
- Flooring
- Water and Weatherproofing
- General maintenance

And many others....



# SolarTech PE 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. Material can also be supplied in the 1mm - 1.5 mm range	
Weight	2.9kg/m <sup>2</sup>	
Packaging	Standard Roll 10mx0.92m packed in cardboard box	
Technical Data		
	<b>Typical Values</b>	<b>Test Method</b>
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	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 Lamine ' 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 PE 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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SOLARTECH Agent:

**DISCLAIMER** : The information contained herein is to the best of our knowledge accurate and is given in good faith without warranty. Users are deemed to have satisfied themselves independently as to the suitability of our products for their particular purpose. In no event shall SolarTech International Limited be liable for consequent or incidental damages.