

Auspreg UV™ MTT-946



"Australian Composites can offer superior grade locally produced PREPREGS backed up, by technical service to composite manufacturers throughout Australia"



BENEFITS OF PREPREGS

- Specially formulated to provide excellent protection against corrosion, impact abrasion and harsh climatic environments.
- Ideal for use on most surfaces including steel, concrete, wood, GRP and FRP products.
- Ideal for metal pipe repair and reinforcement.

DESCRIPTION OF PRODUCT

- Easy to use, rapid cure glass reinforced (GRP) laminates.
- Double Bias 450+ CSM 600 E-Glass, containing high grade Iso Polyester resins.
- Soft, pliable ready to use material.



BENEFITS OF PREPREGS FROM AUSTRALIAN COMPOSITES

PRODUCT DETAILS

- Standard Roll Sizes – 15m.
- Packed in foil bags and reinforced cardboard boxes.
- Slit Coils available for easy handling in 300mm and 600mm widths
- Made in Australia by Specialty Coatings (Aust.) Pty Ltd

- Proven technology and highly recommended for insulation protection.
- Provides exceptional chemical resistance for storage tanks, oil and gas pipe line repair and reinforcement.
- Ideal Roof repair and structural support.
- Safe for use in potable water applications.
- Applicable for use in above and below water situations.
- Provides for permanent structural repairs (10 + years)

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PRODUCT DATA		
Appearance	Roll formed sheet	
Colour	yellow/green	
Mix Ratio	One Component	
Curing Mechanism	Ultra Violet (UV) Natural light or Mercury Vapour or Metal Halide.	
Material Thickness	1.5 – 2.0 mm	
Packaging	15m x 1.27m Roll packed in silver foil and reinforced cardboard box.	
TECHNICAL DATA		
	Results	Test Method
Fibre Volume Fraction	50% fibre : 50% resin by weight \pm 5%	
Width Finished Product	1270mm \pm 20mm	AS 2001.2.12
Weight Finished product	2000gms/m ²	AS 2001.2.13
Tensile strength	> 40 Mpa	BS 2782 - 1994
	0°=230 MPa \pm 5% \pm 45°=250MPa \pm 5% 90°=150MPa \pm 5%	ASTM D3039M
Tensile Modulus	0°= 10 Gpa \pm 2 \pm 45°= 10 GPa \pm 2 90°= 8 GPa \pm 2	ASTM D3039M
Inter laminar Shear Strength	0° =24MPa \pm 5% \pm 45°= 30MPa \pm 5% 90°=25MPa \pm 5%	ASTM D2344
Flexural strength	0°=270MPa \pm 5% \pm 45°=375MPa \pm 5% 90°=280 MPa \pm 5%	ASTM D790 - 03
Flexural Modulus	5.98 GPa	ASTM D2344
	0° = 15 GPa \pm 3 \pm 45°= 14 GPa \pm 3 90° = 15 MPa \pm 3	ASTM D790
Elongation at break	> 3%	BS 2782 - 1994
Coeff. Of Thermal expansion	2.9 10 ⁻⁵ ° C	ASTM D696-03
Impact resistance >	45 Kj/sqm	BS EN ISO 180
Hardness	> 50 Barcol	ASTM D2583-01
Compression strength	> 170 Mpa	ASTM D695-2002a
Adhesion to steel	> 11 Mpa	ASTM D4541-02
Water Vapour Permeability	0.30g/m ² /24h/mmHg	ASTM E96
Heat distortion Temp	> 70 Deg C	ASTM D648
Fire rating	Class 1 BS 476 part 7:1997	ASTM E84
Flash Point	> 32 °C	ASTM D93
Heat resistance	Wet: 80 deg C Dry: 200 ° C	
Moisture Uptake %	0.09% after 30 days	
Chemical resistance	Good Chemical resistance. Chart available on request	
Electrical Properties	Dielectric strength: 7KV/mm as per IEC 243	
Arc resistance	greater than 180 seconds as per ASTM D495	
Tracking resistance	greater than 500 volts as per IEC 112	
Insulation resistance	10 to the power of 13 ohms as per IEC 93	
HANDLING/STORAGE		
Curing Conditions	<ul style="list-style-type: none"> • Light intensity – 4.4 x 10⁻⁵ W/cm² (Approx 1 mercury vapour 400W per 30cm² 15-30 cm above Prepreg) • Single Ply – 10 mins, Two Ply – 30 mins 	
Safety Precautions	Please refer to the product Material Safety Data Sheets for detailed information on handling, shipping and disposal.	
Storage	<ul style="list-style-type: none"> • Store in sealed silver foil bags as provided at or below 30°C • Store in horizontal position • Rotate product 180 degrees every month during storage 	
Shelf Life	12 months from date of manufacture.	

Disclaimer: The information in this product data sheet is based on the results obtained on the sample assessed at the time in accordance with the method provided. The values are a guide and purchasers and specifiers should evaluate the product to determine its suitability for intended use.