



Unique Polymer Systems

ADVANCED POLYMER SURFACE ENGINEERING TECHNOLOGY

Unique Polymer Systems – Super Glass Tape Special Pipe Grade



Unique Polymer Systems have developed a special braided GLASS FIBRE TAPE that, when used in conjunction with the UPS Standard Resin and Hardener, offers the ultimate in both LEAK SEALING and PIPE PROTECTION

USES

Uses range from the sealing of leaks on any size of pipe to the protection of lagging to prevent under lagging corrosion that can lead to hidden pipe defects that can leak at any moment to the wrapping of pipes that are old and damaged and can lead to extending their operating life by many years.

Other uses of the unique system is the protection of off shore facilities that suffer from corrosion – erosion and salt water damage through either constant immersion or periodic immersion coupled with the aggressive nature of wave power.

TECHNICAL DATASHEET UPS19007/9

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Tape Specifications

- Glass tape is made to DIN 61854
- Material of WARP and WEFT is woven from poly-glass yarn to EC 9-34 tex PPG 1383/Vetrotex TD22, which will blend with the resin & hardener to provide proper strength and physical properties. This glass has a better rating against ageing from contact high UV exposure compare with other tapes
- The tape supplied is woven to a WARP of 20 yards/cm and WEFT 10 x 2 yarns/cm
- Weft > 300 N/cm $\pm 20\%$
- Yarn number capture : 1 yarn.at.edge, polyester 76 dtex
- Surface weight : approx. 140 gm/m² ($\pm 5\%$)
- Thickness : Approx. 0.12mm (± 0.02 mm)
- Weave pattern : 1/1 plain weave
- Weave tolerance : ± 1 mm
- Tensile strength : wrap >300 N/cm $\pm 20\%$

Maximum Working Temperature

(in conjunction with glass tape) 170°C (338°F). The maximum working temperature in conjunction with sealer/filler resin mix is 180°C (356°F).

PHYSICAL PROPERTIES

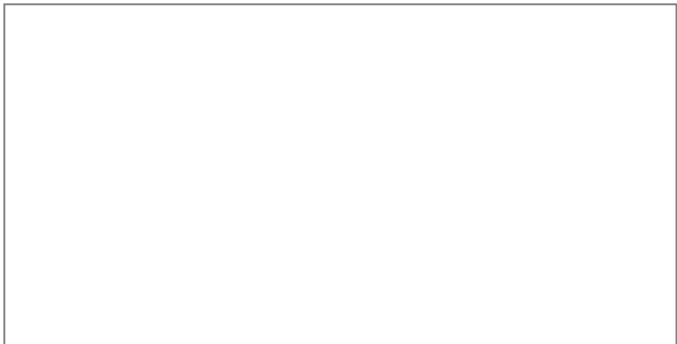
Hardener Compressive Strength ADTM D695	1019 kg per cm ² (14,500 psi)
Flexural Strength ASTM D790	956 kg per cm ² (13,600 psi)
Tensile Strength ASTM D4060	633 kg per cm ² (900psi)*
Low Pressure Repair	35kg/cm ² (500psi)*
High Pressure Repair Bandage	112kg/cm ² (1600psi)

*(See application manual for full details)

Sizes Available

UPS19007	50mm x 50m
UPS19009	100mm x 50m

FOR FURTHER INFORMATION PLEASE CONTACT



The information provided in this Product Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of the company. Users should determine the suitability of the product for their own particular purposes by their own tests.



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