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The Engineer's Choice

... for Solutions

UPS 19007/9 Glass Tape is a high performance unique braided Glass Fibre Tape that, when used in conjunction with the UPS 19000 RH offers the ultimate in both Leak Sealing and Pipe Protection.

### Applications

Ranging from the sealing of leaks on any size 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.

**Before proceeding please read the following information carefully to ensure that the correct proper application procedure is fully understood.**

### 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 and Hardener to provide extreme strength and physical properties.
- This glass tape has better rating against ageing from contact with 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/m<sup>2</sup> ( $\pm 5\%$ )
- Thickness; Approx 0.12mm ( $\pm 0.02$ mm)
- Weave Pattern; 1/1 plain weave
- Weave Tolerance;  $\pm 1$ mm
- Tensile Strength; Wrap >200 N/cm ( $\pm 20\%$ )

## Technical Data & Performance

### Characteristics

#### Coverage Rates

UPS 19007 GT 50mm x 50m	1.25m <sup>2</sup> per Roll with 50% overlap	13.45ft <sup>2</sup> per Roll with 50% overlap
UPS 19009 GT 100mm x 50m	2.5m <sup>2</sup> per Roll with 50% overlap	27ft <sup>2</sup> per Roll with 50% overlap
<i>Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.</i>		

#### Maximum Operating Temperatures

Dry Heat	100°C (212°F)
Sealer Filler Resin Mix	180°C (356°F)
In Conjunction with Glass Tape	170°C (338°F)

#### Operating Pressures

Low Pressure Repair	35kg/cm <sup>2</sup> (500 psi)
High Pressure Repair	112kg/cm <sup>2</sup> (1600 psi)
See application manual for full details	

### Mechanical Properties

<b>Compressive Strength</b> ASTM D695	1019kg/cm <sup>2</sup> (14,500 psi)
<b>Flexural Strength</b> ASTM D790	956kg/cm <sup>2</sup> (13,600 psi)
<b>Tensile Strength</b> ASTM D4060	644kg/cm <sup>2</sup> (900 psi)

**Corrosion Resistance** – Excellent even under seawater immersion conditions

**Chemical Resistance** – Unaffected by short-term contact with industrial chemicals.

Full chemical resistance chart available on request.

**Quality:** All Unique Polymer Systems LTD Products are supplied under the scopes of the company's fully documented quality system.

**Warranty:** Unique Polymer Systems LTD warrants that the performance of the product supplied will confirm to the typical descriptions quoted within this Technical Data Sheet provided the material is stored correctly and used according to the procedures detailed in the Technical Data Sheet for the material.

**Health & Safety:** Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read the fully detailed Material Safety Data Sheet.

**Legal Notice:** The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Unique Polymer Systems LTD accepts no liability arising out of the use of this information or the product described herein.