



GUARDIAN PROTECTIVE COATINGS **HD-GW Overwrap**

Resin pre-impregnated fiberglass tape for instant pipe repair, protection, reinforcement, corrosion protection and maintenance system that will set even under water.

GUARDIAN HD-GW is a fiberglass cloth which has been pre-impregnated with water activated polyurethane resin prior to packaging. The polyurethane resin is activated with salt or fresh water and has a setting time of 10-30 minutes, depending on the temperature. This revolutionary product will set under water making it ideal for applications in the splash zone, corrosion protection reinforcement, piling protection and electrical insulation to 16,000 volts. It will retain pressure on supply lines and will function under intermittent temperatures from -65°F(-54°C) to +572°F (300°C).

APPLICATIONS:

Repair of leaking, cracked or broken pipes (metal, plastics, wood, rubber & PVC), pipe protection, pipe reinforcement and corrosion protection.

ADVANTAGES

Maximum heat resistance: 606°F (319°C).

It is ideal for all types of repair and maintenance applications. **Odourless, non-combustible and non-toxic** It can be sanded and painted if desired. Once set, gas, oil or diesel fuel will not affect the repair material.

PROPERTIES

Property	Test Method	Value
Tensile Strength	ASTM D 3039	20.8 kg/f mm ² (29,600 psi)
Flexural Strength	ASTM D 790	15.4 kg/f mm ² (29,600 psi)
Compression Strength	ASTM D 695-77	19.2 kg/f mm ² (29,600 psi)
Thermal Expansion Coefficient	ASTM E 831	7.6 X 10 ⁻⁵ /°C
Dielectric Strength	ASTM D 149	4.3 kV/mm
Flushing Point		Over 700 °C
Heat Resistance		319 °C
Service Temperature		-45 °C to 250 °C
Application Temperature		0 °C to 35 °C (Max. to 65 °C)

PACKAGING

Part No.	Size	Color	Carton Qty
(Without Metal Putty)			
GW050-B-5	50mm x 5m	BLACK	10 Rolls/Carton
GW100-B-5	100mm x 5m	BLACK	10 Rolls/Carton
GW150-B-5	150mm x 5m	BLACK	10 Rolls/Carton
GW050-W-5	50mm x 5m	WHITE	10 Rolls/Carton
GW100-W-5	100mm x 5m	WHITE	10 Rolls/Carton
GW150-W-5	150mm x 5m	WHITE	10 Rolls/Carton
(With Metal Putty)			
GW050-BP-5	50mm x 5m	BLACK	10 Rolls/Carton
GW100-BP-5	100mm x 5m	BLACK	10 Rolls/Carton
GW150-BP-5	150mm x 5m	BLACK	10 Rolls/Carton
GW050-WP-5	50mm x 5m	WHITE	10 Rolls/Carton
GW100-WP-5	100mm x 5m	WHITE	10 Rolls/Carton
GW150-WP-5	150mm x 5m	WHITE	10 Rolls/Carton

Feature

1. Can be used both in salt or fresh water.
 2. Non-toxic, Non-combustible and Odourless
 3. Repair leaking cracked or broken pipe of petroleum, oil, gasoline and organic solvent.
 4. Can be applied to acid and alkali.
 5. Can be used in all sorts of metal, plastics, wood, rubber, PVC and glass.
 6. Lessen a stop hour of industrial equipment.
 7. NP-SET for under non-pressure conditions.
UP-SET for under pressure conditions.
 8. Normally, can be used up to internal pressure of 1,740 psi (120 bar / 122 kgf/cm²) after set. Under pressure conditions (while the pipeline is still flowing), the pressure of the pipe should be Less than 60 psi (4.1 bar / 4.21 kgf/cm²) before setting. But, each additional wrap of rubber and fiberglass tapes provide more pressure on the leak.
- Shelf Life: 3 years and more if stored in a cool and shaded area at room temperature.**

All statements and data presented herein are given in good faith and believed to be appropriate and reliable. It is given without express or implied warrant or guarantee. Potential users of Guardian's materials are urged to conduct confirmatory trials to satisfy themselves as to the suitability of the selected product for their particular end use prior to purchase.

