

GUARDIAN HD-GW (Glasswrap) is a resin pre-impregnated fiberglass instant pipe repair, protection, reinforcement, corrosion protection and maintenance system that will set even under water.

GUARDIAN HD-GW (Glasswrap) is a water activated and curable polyurethane pre-impregnated fiberglass tape. Normal setting time is 10-30 minutes, but may vary depending on temperature. Water, salt or fresh is the activator!! 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 -45°C to +319°C.

PROPERTIES

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

PACKAGING

(Without Metal Putty)

Part No.	Weight	Color	Carton Qty
FG001308	50mm x 5m	Black	10 Rolls
FG001309	100mm x 5m	Black	10 Rolls
FG001109	150mm x 5m	Black	10 Rolls
FG001310	50mm x 5m	White	10 Rolls
FG001311	100mm x 5m	White	10 Rolls
FG001312	150mm x 5m	White	10 Rolls
FG004398	150mm x 10m	Grey	10 Rolls
FG004391	200mm x 10m	Grey	6 Rolls

(With Metal Putty)

Part No.	Weight	Color	Carton Qty
FG001313	50mm x 5m	Black	10 Rolls
FG001314	100mm x 5m	Black	10 Rolls
FG001331	150mm x 5m	Black	10 Rolls
FG001332	50mm x 5m	White	10 Rolls
FG001333	100mm x 5m	White	10 Rolls
FG001334	150mm x 5m	White	10 Rolls

OTHER APPLICATIONS

Overwrap: Guardian Petrolatum and Guardian Splash-zone 60GW System, when applied above ground or where greater mechanical protection is required.

Feature

1. Can be used both in salt or fresh water.
2. Cures whilst underwater
3. Non-toxic, Non-combustible and Odourless.
4. Repair leaking cracked or broken pipe of petroleum, oil, gasoline and organic solvent.
5. Can be applied to acid and alkali.
6. Can be used in all sorts of metal, plastics, wood, rubber, PVC and glass.
7. Lessen a stop hour of industrial equipment.
8. No Putty for under non-pressure conditions. With Putty for under pressure conditions.
9. 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 cool and shaded area at room temperature.

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.