

RX + UV-curing FRP Shield

Product Description

RX + UV-curing FRP Shield is a multilayer coating system specifically designed for the corrosion protection of welded joints operating in HDD(horizontal directional drilling) and pull through applications that may be present particularly on large diameter pipes.

The system consists of epoxy primer RX inner layer and UV-curing FRP Shield mechanical protection outer layer.

RX provides excellent waterproof, chemical resistance and sealing performance. At the same time, RX has a good bond to steel substrates, cured FRP shield and common factory coatings like PE, PP, and FBE.

UV-curing FRP Shield provides superior mechanical protection against the damage from soil stress. And these make up a complete joints system.

Furthermore, the most important issue for the system is that RX inner layer has enough elasticity and toughness. It ensure the joints system has excellent abrasion resistance, impact strength, no deformation and non-falling properties. So RX + UV-curing FRP Shield is the best choice for field joints during the HDD and pull through applications.

Features/Benefits

- Application by hand, easily and fast.
- Cold applied, without extra heat.
- Resistant to UV.
- Long term corrosion protection.
- Good mechanical properties.
- Resistance to the cathodic disbondment.
- Compatible with common pipe coatings, such as 3LPE, FBE, etc.

Product Properties

Physical Properties		Test Method	Value
Total thickness		ISO 4593:1993(E)	2.5mm to 3.2mm
Peel Adhesion	To steel	ASTM D 1000	≥ 10 MPa
	To PE		≥ 4 MPa
	To FBE		≥ 10 MPa
Tensile Strength	longitudinal	ASTM D 638	≥ 250 MPa
	hoop		≥ 200 MPa
Dielectric Strength		ASTM D 149	≥ 20 kV/mm
Hardness		ASTM D 2240	Shore D ≥ 85
Impact Resistance		ASTM G 14	≥ 25 J