



## **XUNDA T800** Visco-elastic Coating System

### **System Description**

The visco-elastic coating system is designed for corrosion protection of onshore and offshore pipeline、 flanges、 valves etc, it consists of visco-elastic tape, visco-elastic paste and outerwrap.

### **Visco-Elastic Tape**

The visco-elastic tape is a non cure, cold applied corrosion prevention wrap adhering extremely well to the plant coating PE, PP, FBE and irregular equipment such as flanges, valves, pipe fittings, rings, manhole etc

Visco-elastic tape can cold flow into all irregularities of the substrate and self healing of the complete coating system.

### **Visco-Elastic Paste**

Visco-elastic paste is a cold flow ,self healing elastic paste for corrosion preventing and adhering extremely well to steel and factory applied pipeline coatings like PE,PP and FBE.

Visco-elastic paste can flow into all irregularities of the substrate at operating temperature. The compound does not cure and resistance to water and has a very low gas and water vapour permeability.

### **Outer tape**

Visco-elastic coating system requires mechanical protective layer like Xunda Outer tape .This improve impact and indentation resistance of the coating system and supports the self healing ability of small damages like dent and cuts.

### **Product Features**

- Primer free.
- Constant film thickness
- Conforms to irregular shapes
- Inert to ageing and weathering
- It can be self repair for light defects
- Resistance to low temperatures without getting brittle
- 100% coverage rate, it is completely waterproof and anti corrosion.
- Environmentally friendly ,no health and safety hazard to humans
- Resistant to many chemicals like water ,salts ,acids .alkalis ,polar solvents etc



**Product Properties –Visco-Elastic Tape T 800**

Item	Test method	Performance
Color		Green、 Blue
Thickness	ISO 21809-3	≥1.80mm
Glass Transition Temp	ISO 21809-3	-67 °C
Melt Point	ISO 21809-3	No melt point present
Peel Strength to steel(23°C)	ISO 21809-3	0.40N/mm
Coverage Rate		>95%
Peel strength to coating(23°C)	ISO 21809-3	0.49N /mm
Coverage Rate		>95%
Shear Strength to Steel (23°C)	ISO 21809-3	>0.02MPa
Coverage Rate		>95%
Peel strength to steel (50°C) after thermal ageing resistant and hot water immersion test for 100 days	ISO 21809-3	0.35N /mm
Coverage Rate		>95%
Peel strength to coating(50°C) after thermal ageing resistant and hot water immersion test for 100 days	ISO 21809-3	0.35N /mm
Coverage Rate		>95%
Shear Strength to Steel (50°C) after thermal ageing resistant and hot water immersion test for 100 days	ISO 21809-3	≥0.02MPa
Coverage Rate		>95%
Adhesion test to steel and coating before and after thermal ageing resistance and hot water immersion test both for 100 days	ISO 21809-3	No adhesion failure(23°C) No adhesion failure(50°C)



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Specific Insulation Resistance	ISO 21809-3	
Rs 100 at 23 °C		≥10 <sup>8</sup> Ω.m <sup>2</sup>
Rs 100/Rs70 at 23 °C		≥0.8 Ω.m <sup>2</sup>
Cathodic Disbandment	ISO 21809-3	0 mm,no holiday self-healing
Drip Resistance @85 °C for 72 hours		No dripping
Heat aging (100d, 90°C)		Coverage Rate≥99%
Chemical Resistance (90d , 10% HCL)		No Change
Chemical Resistance (90d, 10%NaOH)		No Change
Chemical Resistance (90D, 3%NaCL)		No Change
Operational Temperature Range		-45°C ~85°C

**Product Properties –Outer Tape T 200-C**

Product properties	Test method	Typical Value
Thickness	ISO 21809-3	0.50 mm
Tensile Strength	ISO21809-3	12 kg/25 mm
Elongation at break (E100/E0) after thermal ageing test for 100 days at 23 °C	ISO 21809-3	1.10
Peel Strength to itself	ISO 21809-3	0.05 N/mm
Temperature Range		5°C -50°C
For Application		-30°C - 85°C
For Service		