

Guardian Visco-Elastic Filler Paste is a corrosion preventative moulding paste that is developed for mid to high temperature applications. It provides excellent adhesion to steel substrates, as well as factory applied pipeline coatings like 3LPE, PP, HBE and FBE.

Guardian Visco-Elastic Filler Paste is a non-toxic, cold-applied, moulding paste compound consisting of non-crystalline, low-viscosity, non-crosslinked (fully amorphous), non-reactive Polyisobutene.

Guardian Visco-Elastic Filler Paste is viscous at the indicated operating temperatures. Due to its liquid nature it has a set of unique properties like cold-flow into all irregularities of the substrate and self-healing of the complete coating system. The compound does not cure and is unable to build up internal stress. The product has a low water vapour permeability.

Guardian Visco-Elastic Filler Paste requires an additional flexible mechanical protective layer like visco-elastic tape. This improves impact and indentation resistance of the coating system and supports the self-healing ability of small damages like dents and cuts. Optionally a rigid mechanical protective layer can be applied on top.

FEATURES

- Controlled cold flow providing permanent inflow into the finest pores of the substrate
- Conforms to irregular shapes
- Low surface tension; adheres on many types of dry substrates at a molecular level
- Adhesion based on vanderWaals forces - Inert to ageing and weathering
- No osmosis or underfilm migration of moisture - No cathodic disbondment
- Environmentally friendly, no health and safety hazards to humans
- Resistant to many chemicals like water, salts, acids, alkalis, polar solvents, etc.
- For additional information, please consult Guardian Integrity

BENEFITS

- Easy to apply
- Easy to control application
- Surface tolerant: no blasting techniques required, wire brushing is sufficient (ISO 8501-1: St 2)
- Can be moulded onto various types of irregular shaped objects
- Cathodic Protection (CP) of steel structures is not affected
- Guaranteed performance

APPLICATION GUIDE

Flanges	For protection against external corrosion and shaping of connection flanges, insulation flanges and blind flanges.
Valves	For protection against external corrosion and shaping of valves. Irregular shaped parts: For protection against external corrosion and shaping of manhole covers, bolts & nuts, etc.
Cad-welds	For protection against external corrosion of welded CP-wire connections on underground pipelines (Pin-brazes) and underground steel structures protected by CP.
Pipe coating repairs	For protection against external corrosion and as filler for pipeline coating defects of e.g. 3LPE coated pipelines, prior to application of consecutive mechanical protective coating.

PROPERTIES

Property	Test Method
Color	Green
Density	1.5g/cm ³
Temperature Range	
Service	-45°C to +95°C
Short term max	+120°C
Water Absorption	<0.03% (ASTM D570)
Glass Transition Temperature	<-65°C
Specification Electrical Insulation Resistance	Rs100> 108Ω.m ² *)
Adhesion Test	Tested @+23°C and +95°C on steel and PP plant coating*). Results on all substrates: - Coating leaves a film of corrosion preventive compound on the substrate.
Thermal Ageing Resistance and Resistance and Hot Water Immersion	Dry ageing 100 days @+115°C and hot water immersion 100 days @+95°C*) - Coating leaves a film of corrosion preventive compound on the substrate.
Salt Spray Resistance	Tested 720h, 5% NaCl @+85°C (ASTM B117): No corrosion detected.

SHELF LIFE

Service Life : More than 30 years
 Normal Packing : Carton (Maximum 45kg)
 Shelf Life : 2 years, under correct storage condition

ORDERING INFORMATION

Part No.	WEIGHT
FGCS0092	3 kg
FGCSxxxx	5 kg

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