

STOPAQ® POLYESTER

Product Information

Generic type: STOPAQ® Polyester is a pre-impregnated, glass-fibre reinforced polyester lining material, curing by means of Ultra Violet light.

Product Description: STOPAQ® Polyester is used as an additional mechanical and UV protective layer on steel surfaces protected with STOPAQ® Wrappingband CZH corrosion protective coatings. The lining material has a thickness of 2mm. The lining material is covered on both sides with a thin, transparent, disposable film. The bottom film is peeled off during application. The STOPAQ® Polyester will cure under influence of Ultra Violet light and form a hard, impact- chemical- and weather resistant surface. The top film prevents styrene evaporation from the uncured lining. In case additional UV-or decorative coating is specified, the top film can be peeled off after curing.

Features:

- Excellent impact resistance
- Wide temperature range during application and in service
- High performance in cold, hot, wet and chemically aggressive soils and environments
- Safe and fast application
- Long pot life when protected against UV-A light
- Fast and complete cure independent of ambient temperature
- Curing with sunlight as well as with UV-A Lights

Benefits:

- Very high resistance to aging - even when exposed to max or min temperature for longer periods
- Resists common impacts and indentations which often occur during installation and backfilling
- No material waste (when protected against UV-light)
- Safe light spectrum: 380nm - 410nm
- Minimal styrene emission
- Secondary finishes (additional UV-protective- or decorative coatings) can be applied immediately after curing

Application examples

Soil-to-air and above ground pipe sections: STOPAQ® Polyester is especially used as protective layer on STOPAQ® corrosion protected pipeline sections in soil-to-air zones, above ground- and other situations where pipelines might be exposed to heavy mechanical-, chemical-, and weather influences.

Pipe saddles: For mechanical protection and load spreading on STOPAQ® corrosion protected pipes in support- and pipe saddle locations.

Riser pipe splash zones: As splash-zone impact shield on STOPAQ® corrosion protected riser pipes and jetty piles.

Shaped parts: As mechanical / chemical resistant shield on STOPAQ® corrosion protected bends, Tee's, Flanges, Insulation flanges, Valves, Manhole Covers and Cat-welds.

Product Properties_STOPAQ® Polyester

Colour	Opaque
Thickness	2mm
Density	1,8g/cm ³
UV light spectrum	380 - 410nm Sun- and UV-A light
Curing time	20 - 60 min. depending of light source.
Hardness	RC 92
Elongation at break	3,1% (ASTM D 3039M)
Impact resistance	Izod 60 kJ/m ²
Temperature range	Application temp: +5°C to +50°C Service temp: -50°C to ca. +100°C, for higher temperature resistance, please consult STOPAQ® Europe B.V.
Tensile strength	>85,87 MPa (ASTM D 3039M)
VOC's	4 PPM

Product Properties_STOPAQ® Polyester on STOPAQ® Wrappingband CZH

Total Thickness	3,8mm - 4mm (ISO 9001)
General Order Information	
Product	STOPAQ® Polyester is available in rolls of 45, 90, 180, 295, 600, 970mm width x 10m long.
Packaging	In cardboard box. Coiled on cardboard core, packed air - and light tight
Handling	Handle with care, boxes always upright. Protect against bright light sources.
Storage	Indoor, dark, dry and clean. Storage temperature not lower than +5°C and not above +25°C. Shelf life more than 6 months when stored in undamaged, original packing.
Topcoat	See Product Data Sheet of STOPAQ® Gel Coat.

Application instruction Preparation		Application Instruction Curing	
Application equipment	Scissors, knife, measuring tape, latex gloves, application roller, UV-protection safety glasses, Transparent, 50mm wide, self adhesive tape, Reflecting boards and UV-A light units.	Temporary fixation	Prior to curing, keep the applied Polyester sheets in place and under tension by means of several wraps of 25 - or 50mm wide, transparent household foil.
Ambient conditions	Ambient temperatures should be above +5°C and humidity at maximum 95%.	Curing procedure	Cure the Polyester for by means of exposure to sunlight or UV-A light units. Make use of light reflectors in order to achieve equal curing and quality on all parts of the coated surface. Control, by knocking in several places on the Polyester, the degree of curing. After removing the tape wraps and the outer release film, the cured surface is ready for application of an eventual final coating. (UV- or decorative).
Work area and substrate	The work area should be protected against UV-light. The application surfaces should be dry and clean with a temperature of minimum +5°C and always kept $\geq +3^{\circ}\text{C}$ above the dew point.	Application instruction QA Control	
Polyester wrap conditions	The STOPAQ® Polyester should be protected against UV- and sunlight during unpacking, cutting and application. The Polyester sheets should be dry with a temperature between +10°C and +20°C for the ease of handling and shaping.	Visual inspection	The applied Polyester Wrap must look smooth and tight and should be shaped around all details and into corners.
Application instruction Wrapping		Post application routines	
Measuring and Cutting	For correct measurement, calculate with 50mm overlap, Polyester-on-Polyester- and Polyester direct on-adjacent coating outside the STOPAQ® corrosion protective layer. ATTENTION: Secure proper protective measures against exposure to UV-light. Premature curing makes the Polyester useless.	Underground installation	Burial and Installation in a ditch is possible immediately after completion of the coating & curing. The STOPAQ® coated, Polyester protected areas should with care be exposed to impacts and loads from supports and lifting equipment.
Wrapping of STOPAQ® Polyester	Loosen and gradually remove - during the application - the protective film on the underside of the pre-cut Polyester sheet, attach the sheet to the underlying substrate and wrap with tension, the sheet around the object. In overlaps, loosen the outer protective film, apply the 50mm overlap and fold back the protective film. Make sure that there are no air enclosures under the applied Polyester and that it follows the contour of the underlying STOPAQ® protective layer.	Back-filling	Backfill and compact with clean sand and fill material without sharp stones or hard lumps of soil.
STOPAQ® Information			
Documentation		Extensive information is available on our web-site. Detailed application instructions, "STOPAQ® Technical Standard" can be acquired from our head office and/or local distributor; info@stopaq.com	
Certified staff		The application of STOPAQ® systems should always be carried out by STOPAQ® certified personnel.	



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