

PRODUCT DATA SHEET

STOPAQ® POLYESTER

Product Information

Product description: Stopaq[®] Polyester is a polyester resin preimpregnated glass-fibre reinforced outer wrap material, curing by means of Ultraviolet light.

Stopaq[®] Polyester is applied on top of Stopaq[®] corrosion preventing coating systems to provide additional resistance against mechanical impacts, weathering, UV-radiation and chemicals.

After curing with UV-light, Stopaq[®] Polyester forms a hard and rigid shell on top of previously applied Stopaq[®] coating systems.

Features:

- Fast and easy to apply
- · High resistance to mechanical impacts and indentations
- Long-term resistance to ageing effects, even when used continuously at maximum or minimum temperature specified.
- Resistant to cold, hot, wet and chemically aggressive environments
- · Wide operational temperature range
- Long pot life when sheltered from UV-light sources

Benefits:

- Fast curing, relatively independent from ambient temperature
- · Complete curing to be obtained by UV-A light sources and by sunlight
- · Low styrene emission
- Top coats can be applied immediately after complete curing

Application examples

Soil-to-air transitions of pipelines: Rigid mechanical protection of Stopaq[®] corrosion preventing coating systems on risers against soil shear, mechanical impacts, indentations and weathering.

Field joint coatings: Rigid mechanical protection of Stopaq[®] corrosion preventing coating systems on pipeline girth welds against soil shear, mechanical impacts and indentations.

Pipe saddles: Rigid mechanical protection of Stopaq[®] corrosion preventing coating systems on pipe saddles against indentations and abrasion by movements of the pipeline.

Pipelines and fittings: Rigid mechanical protection of Stopaq[®] corrosion preventing coating systems on above ground and buried pipeline sections, bends, tees, valves and flanges against soil shear, mechanical impacts, indentations and weathering.

Product properties of Stopaq [®] Polyester		
Colour	Off-white	
Thickness	1.7 mm	
Density	1.84 g/cm³ (ISO 1183)	
Light sources for curing	UV-A lamps (wavelength 380 - Sunlight	– 400 nm)
Temperature	Ambient during application:	Above +5°C
ranges	Operation:	-165°C to +90°C
	Heat distortion:	+225°C
Hardness	Barcol: ≥ 60 (ASTM D2583)	
Impact resistance	57 kJ/m² (ISO 179)	
Elongation at break	1.7 % (ISO 527-4)	
Tensile strength	65 MPa (ISO 527-4)	
Tensile modulus	9 GPa (ISO 527-4)	
Flexural strength	150 MPa (ISO 14125)	
Flexural modulus	9 GPa (ISO 14125)	
Compressive strength	150 MPa (ISO 14126)	
Compressive modulus	14 GPa (ISO 14126)	

General order information		
Product	Stopaq® Polyester is supplied in rolls, packed in	
	light-blocking foil in cardboard boxes.	
Art. Nr.:	Product dimensions and contents:	
1144-01000	Stopaq® Polyester 1000mm x 10m, 1 roll/box	
Supplementary	Supplementary available Stopaq® Compression	
product	Tape must be used to complete application of	
	Stopaq® Polyester. As a rule of thumb, 3 rolls of	
	Compression Tape are needed for the	
	application of 1 roll of Polyester.	
Art. Nr.:		
1143-06600	Stopaq® Compression Tape 100mm x 66m, 1	
	roll each	
Handling	Handle with care.	
	Avoid unnecessary exposure to light.	
Storage	 Store in a cool, dark, dry, and well 	
	ventilated place in original light-blocking foil	
	in original cardboard boxes.	
	 Storage temperature between +5°C and 	
	 Storage temperature between +5°C and +25°C. 	
	+25°Č.	
	+25°C. - Shelf-life when stored in original package: 6	
	+25°C. - Shelf-life when stored in original package: 6 months	

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Application instru	ction - Job proparation	
OHSE measures	ction - Job preparation	
Onse measures	Consult Safety Data Sheet for applicable	
	exposure controls and personal protection	
Tools, equipment	 Scissors, knife, measuring tape, application 	
and auxiliaries	roller	
	 UV-A lamps (depending on surface 	
	dimensions, two or more lamps are	
	needed), or – in case of curing by sunlight	
	 UV-reflective mirrors. 	
	 Personal protective gear according to 	
	Safety Data Sheet, UV-blocking safety	
	glasses.	
Ambient	Ambient temperatures should be above +5°C.	
conditions	During application of Stopaq® Polyester, the	
	rolls, the cut pieces of material and the work	
	area should be shielded against:	
	 UV-radiation and light to prevent premature 	
	curing.	
	 Water, rain, moisture and condensing 	
	water on the substrate to prevent	
	detrimental effects on the curing process.	
Work area and	The substrate should be dry and clean, i.e. free	
substrate	from foreign matter such as loose particles, oil	
	and grease. The substrate should be free from	
	condensing water which can be reached by	
	keeping the temperature at least 3°C above dew	
	point.	
Product conditions	Stopaq® Polyester should be dry and the	
	temperature should be above +5°C and	
	preferably not beyond +30°C.	
Calculation of	Stopaq [®] Polyester is applied in straight wraps	
material	perpendicular to the pipe with the following	
consumption	overlap-dimensions:	
	 Circumferential overlap: ≥ 50 mm 	
	 Side-by-side overlap of consecutive pieces: 	
	≥ 50 mm	

Compressing and fastening	Prior to curing the applied pieces of Stopaq [®] Polyester should be compressed and fastened by tensioned wrapping with Stopaq [®] Compression Tape on top of the applied Polyester. Compression tape should be spirally wrapped with an overlap of ≥ 50%.
Curing	Place UV-lamps - or, in case of curing by sunlight, the reflective mirrors - around the object coated with Stopaq® Polyester. Ensure that the entire coated surface will be enlightened. Switch on the UV-lamps; be careful not to look into UV-light sources without adequate eye protection! After curing time has elapsed, check for completion of curing. The cured Polyester shall feel hard.
Coating of Polyester	Stopaq® Polyester can be coated with various types of liquid top-coatings for esthetical reasons. It is then recommended to remove the Stopaq® Compression Tape and remainders of outer release foil. Please consult Stopaq B.V. for further information about suitable liquid top-coatings.
Sealing of coating transition area	Above ground situated coating transition area should be sealed against ingress of water (rain, condensation) by circumferential application of Stopaq® Sealing Tape. The Sealing Tape must overlap the coated Polyester and the original pipe coating.

Application instru	ction – Brief version	
See specific Stopaq coating instructions for e.g. soil-to-air risers, field joints, pipe wrapping, coating of fittings, etc.		
Cutting to size	Take the roll of Stopaq® Polyester from its original package. Cut off the appropriate length. Immediately after cutting, the remaining roll of Stopaq® Polyester shall be stored into its original package to prevent premature curing.	
Release liners	The inner release liner (blue) must be carefully removed from the Stopaq [®] Polyester prior to wrapping. In overlap areas, the outer release liner (colourless) has to be removed also.	
Wrapping	Start wrapping the cut piece of Stopaq® Polyester, complete the full circumferential wrap while applying slight tension and create a circumferential overlap of ≥ 50 mm. With consecutive wraps: - circumferential overlaps shall be made alternatingly at opposite sides of the object. - side-by-side overlaps should be ≥ 50 mm onto the previously applied piece of Polyester. - overlaps should preferably be made on non-cured applied polyester. Minimize air entrapment underneath the Polyester. An application roller may be used to shape the Polyester towards the contour of the coated object.	

	cause excessive impact on the coating.
Information	
Documentation	Extensive information is available on our web- site. Application instructions and other documentation can be obtained by contacting our head office, from our local distributor or by sending email to info@stopaq.com
Certified staff	Application of the described coating system should be carried out by certified personnel.

Coated objects should not be exposed to loads

excessive forces. Burying and commissioning is possible after full curing of Stopaq® Polyester. Backfill and compact using clean fill materials not containing foreign objects such as stones, hard lumps, etc. Such objects would otherwise

before curing of the coating has completed.

Cured coatings should not be exposed to



Seal For Life Industries LLC Franklin, MA, USA Tel: +1 508 918 1600 Toll Free: +1 800 248 7659 Fax:+1 508 918 1905 franklin@sealforlife.com Seal For Life Industries Mexico S de R.L. de C.V. Tijuana, Mexico Tel USA: +1 858 633 9740 Fax USA: +1 858 633 9740 Tel Mx: +52 664 647 4397 Fax Mx: +52 664 607 9105 mexico@sealforlife.com Seal For Life Industries Stopaq B.V. Stadskanaal, the Netherlands Tel: +31 599 696 170 Fax: +31 599 696 177 info@sealforlife.com

Handling and commissioning

Handling before

complete curing

Handling after

curing

Seal For Life Industries BVBA Westerlo, Belgium Tel: +32 14 722 500 Fax: +32 14 722 570 Seal For Life India Private Ltd. Baroda, India Tel: +91 2667 264 721 Fax: +91 2667 264 724 india@sealforlife.com

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