

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	Stopag® Polyester is supplied in rolls, packed in		
	light-blocking foil in cardboard boxes.		
<u>Art. Nr.:</u>	Product dimensions and contents:		
1144-01000			
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.		
<u>Art. Nr.:</u>			
1143-06600	Stopaq® Compression Tape 100mm x 66m, 1		
	roll each		
	ron each		
Handling	Handle with care.		
Handling			
Handling Storage	Handle with care.		
	Handle with care. Avoid unnecessary exposure to light.		
	Handle with care. Avoid unnecessary exposure to light. Store in a cool, dark, dry, and well		
	Handle with care. Avoid unnecessary exposure to light. Store in a cool, dark, dry, and well ventilated place in original light-blocking foil		
	Handle with care. Avoid unnecessary exposure to light. Store in a cool, dark, dry, and well ventilated place in original light-blocking foil in original cardboard boxes.		
	Handle with care. Avoid unnecessary exposure to light. 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		
	Handle with care. Avoid unnecessary exposure to light. 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 +25°C.		
	Handle with care. Avoid unnecessary exposure to light. 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 +25°C. Shelf-life: 6 months when stored in original		
	Handle with care. Avoid unnecessary exposure to light. 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 +25°C. Shelf-life: 6 months when stored in original package.		

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	ction - Job preparation	Wrapping	Start wrapping the cut piece of Stopaq®
OHSE measures	Consult Safety Data Sheet for applicable exposure controls and personal protection		Polyester, complete the full circumferential wrap while applying slight tension and create a
Tools, equipment and auxiliaries	 Scissors, knife, measuring tape, application roller 		circumferential overlap of ≥ 50 mm. With consecutive wraps:
and duaments	 UV-A lamps (depending on surface 		 circumferential overlaps shall be made alternatingly at opposite sides of the object.
	dimensions, two or more lamps are needed), or – in case of curing by sunlight		 side-by-side overlaps should be ≥ 50 mm
	 UV-reflective mirrors. 		onto the previously applied piece of
	 Personal protective gear according to Safety Data Sheet, UV-blocking safety 		Polyester. – overlaps should preferably be made on
	glasses.		non-cured applied polyester.
Ambient	Ambient temperatures should be above +5°C.		Minimize air entrapment underneath the Polyester. An application roller may be used to
conditions	During application of Stopaq® Polyester, the rolls, the cut pieces of material and the work		shape the Polyester towards the contour of the
	area should be shielded against:	Compressing and	coated object. Prior to curing the applied pieces of Stopag®
	 UV-radiation and light to prevent premature curing. 	fastening	Polyester should be compressed and fastened
	 Water, rain, moisture and condensing 		by tensioned wrapping with Stopaq®
	water on the substrate to prevent detrimental effects on the curing process.		Compression Tape on top of the applied Polyester. Compression tape should be spirally
	Premature curing of the sheets of Polyester may		wrapped with an overlap of ≥ 50%.
	occur when ambient UV intensity is (too) high. It	Curing	Place UV-lamps - or, in case of curing by sunlight, the reflective mirrors - around the object
	should then be considered to conduct application in UV-sheltered habitats, or even		coated with Stopaq® Polyester. Ensure that the
	shift to application at night time.		entire coated surface will be enlightened. Switch on the UV-lamps; be careful not to look
Work area and substrate	The substrate should be dry and clean, i.e. free from foreign matter such as loose particles, oil		into UV-light sources without adequate eye
	and grease. The substrate should be free from		protection!
	condensing water which can be reached by keeping the temperature at least 3°C above dew		After curing time has elapsed, check for completion of curing. The cured Polyester shall
	point.		feel hard.
Product conditions	Stopaq® Polyester should be dry and the	Coating of Polyester	Stopaq [®] Polyester can be coated with various types of liquid top-coatings for esthetical
	temperature should be above +5°C and preferably not beyond +30°C.		reasons. It is then recommended to remove the
Calculation of	Stopaq® Polyester is applied in straight wraps		Stopaq [®] Compression Tape and remainders of outer release foil. Please consult Stopaq B.V.
material consumption	perpendicular to the pipe with the following overlap-dimensions:		for further information about suitable liquid top-
Consumption	 Circumferential overlap: ≥ 50 mm 	Sealing of coating	coatings. Above ground situated coating transition area
	 Side-by-side overlap of consecutive pieces: ≥ 50 mm 	transition area	should be sealed against ingress of water (rain,
	≥ 30 IIIIII		condensation) by circumferential application of
	ction - Brief version		Stopaq [®] Sealing Tape. The Sealing Tape must overlap the coated Polyester and the original
See specific Stopaq c	oating instructions for e.g. soil-to-air risers, field		pipe coating.

Application instruction - 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.

	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.
Handling and com	
Handling before complete curing	Coated objects should not be exposed to loads before curing of the coating has completed.
Handling after curing	Cured coatings should not be exposed to 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 cause excessive impact on the coating.
Information	
Documentation	Extensive information is available on our web-

Information	
Documentation	Extensive information is available on our website. 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.



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Anodeflex® - Stopaq® - Polyken® - Covalence® - Powercrete® - Sealtaq® - Blockr® - Easy.Qote® - SynergyQ® - Protecta-mesh®

DISCLAIMER: Seal For Life Industries warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Seal For Life Industries' written instructions. Because many installation factors are beyond the control of Seal For Life Industries, the user shall determine the suitability of the products for the intended uses and assume all risks and liabilities in connection herewith. Seal for Life's liability is stated in its General Terms and Conditions of Sale. Seal For Life Industries makes on other warranty either express or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product. Seal For Life Industries is a registered marks of the Berry Global Group, Inc. or its affiliates.