

STOPAQ® OUTERWRAP PVC

Product Information

Product description: Stopaq® Outerwrap PVC is a UV-resistant flexible polyvinyl chloride tape, coated with a modified pressure sensitive rubber resin adhesive. Stopaq® Outerwrap PVC is used for the mechanical protection of corrosion preventing coating systems such as Stopaq® Wrappingband CZ and CZH. It is well suited for underground and submerged applications. The heavy-duty adhesive layer provides good adhesion to the outer surface of the Stopaq® Wrappingband as well as to its own backing. The Outerwrap has good resistance to impacts, indentations and abrasion, and is also resistant to chemicals like alkalis and acids.

Features:

- Easy to apply
- Cold applied
- Flexible, good conformability
- Good adhesion to Stopaq® Wrappingband as well as to its own backing
- Excellent impact resistance
- Wide service temperature range
- REACH compliant, does not contain Substances of Very High Concern (SVHC).

Benefits:

- Very well suited for manual application
- · Easy to stretch and to apply
- Excellent mechanical protection of Stopaq® corrosion prevention products
- Resists impacts and indentations which may occur during installation and backfilling
- Supports self-healing of completed coating system
- Good resistance to ageing, even when exposed to maximum temperature for longer periods of time
- No curing or waiting time, ready for immediate service

Application examples

Pipes and Vessels: Mechanical protection of Stopaq® corrosion preventing coating systems applied on carbon steel pipeline structures and reservoirs.

Field joints: Mechanical protection of Stopaq® corrosion preventing coating systems applied on carbon steel girth-weld joints of on-shore pipelines.

Pipe fittings: Mechanical protection of Stopaq® corrosion preventing coating systems applied on carbon steel pipe fittings like elbows, bends, tees, reducers and flanges.

Product properties of	f Stopaq® Outerwrap PVC	
Colour	Black	
Thickness	Backing: 0,45 mm [18 mils] ± 10%	
	Total: 0,5 mm [20 mils] ± 10%	
Temperatures	Service: - 45 to +70 °C [-49 to 158 °F]	
	Short term max.: +90 °C [194 °F]	
Peel strength between	Before ageing (P ₀) ^{A)}	
layers	- @ +23 ºC [73 °F]: ≥ 0,20 N/mm [≥18 ozf/in]	
	- @ +70 ºC [158 °F]: ≥ 0,02 N/mm [≥1.8 ozf/in]	
	After thermal ageing for 100 days @ 90 $^{\circ}$ C [194 $^{\circ}$ F] - P_{100} / $P_{0} \ge 0,50$ $^{A)}$ After hot water immersion for 100 days at 70 $^{\circ}$ C [158 $^{\circ}$ F]	
	- $P_{100} / P_0 \ge 0.75^{A}$	
Thermal ageing	Elastic modulus after thermal ageing for 100 days @ +90	
resistance	°C [194 °F]	
	- $E_{100} / E_0 \ge 0.75^{A}$	
	Elongation at break after thermal ageing for 100 days @	
	90 ºC [194 °F]	
	- E' ₁₀₀ / E' ₀ ≥ 0,75 ^{A)}	
	system comprising Stopaq® Wrappingband CZH	
and Stopaq® Outerw	rap PVC	
Total thickness	3,0 mm ± 10%	
Self-healing test	Self-healing of an artificial defect of \emptyset 6 mm [1/4"]:	
	 @ -45 ^oC [-49 °F]: no holiday (≤ 3 months) 	
	- @ +23 ºC [73 °F]: no holiday (≤ 24 hr.)	
	- @ +70 ºC [158 °F]: no holiday (≤ 24 hr.)	
Impact resistance	Tested at 15 J [132 in.lbf] and @ +23 °C [73 °F] A)	
Indentation resistance	- no holidays	
indentation resistance	Tested at 1,0 N/mm ² [145 psi] ^{A)} - @ +23 ºC [73 °F]: no holiday, residual coating	
	thickness ≥ 0.6 mm $[1/4"]$	
	- @ +70 °C [158 °F]: no holiday, residual coating	
	thickness ≥ 0.6 mm [1/4"]	
Cathodic disbondment	After 28 days A)	
resistance	• @ +23 °C [73 °F]: disbondment 0 mm, no holiday	
	• @ +70 °C [158°F]: disbondment 0 mm, no holiday	
	In all cases self-healing completed within 24 hr.	

A) ISO 21809-3:2016 coating type 13A

General order information	
Product	Stopaq® Outerwrap PVC is available in rolls, wound
	on cardboard cores, packed in cardboard boxes:
Art. Nr.:	Product dimensions (W x L) and contents:
Black – 1120:	50mm x 10m: 60 pcs/box;1800 pcs/pallet
1122:	50mm x 30m: 18 pcs/box; 630 pcs/pallet
1121:	75mm x 30m: 12 pcs/box; 420 pcs/pallet
1125:	100mm x 30m: 12 pcs/box;336 pcs/pallet
1126:	150mm x 30m: 6 pcs/box; 210 pcs/pallet
1124:	400mm x 40m: 4 pcs/box; 72 pcs/pallet
Handling	Handle with care. Keep boxes upright.
Storage	Store indoor, clean and dry, away from direct
	sunlight in a cool place below +40°C [104°F].



PRODUCT DATA SHEET STOPAO® OUTERWRAP PVC

Application instruction - Job preparation		Example -	After application of the circumferential wraps,
Tools, equipment and auxiliaries	Scissors, knife and measuring tape	Pipe wrapping (continued)	consecutive spiral wraps should have an overlap of ≥ 50%.
Additional coating materials	Stopaq® Outerwrap PVC is applied on Stopaq® corrosion preventing coating materials, such as: Stopaq® Wrappingband CZ or CZH Stopaq® Paste CZ or CZH Additional mechanical protective materials may be applied over the Outerwrap, e.g.:		Avoid air inclusions. Avoid tenting and bridging Continue spiral wrapping until reaching the boundary of the area to be coated, leaving 3 mm [1/8"] of the previously applied Stopaq® Wrappingband visible at the boundary.
High humidity	 Stopaq® Polyester Stopaq® Outerglass Shield XT Grey Stopaq® Outerwrap PVC can be applied in a humid atmosphere. The substrate should be free from 		When more than one roll of Outerwrap PVC is needed to continue wrapping, an overlap on the end of the previously applied Outerwrap PVC should be created of at least 100 mm [4"].
Work area and substrate	condensing water which can be reached by keeping the temperature at least 3 °C [6 °F] above dew point. The substrate should be dry, clean and protected against negative weather influences. Temperature of the substrate should preferably be between +10 °C		End wrapping with two full circumferential wraps perpendicular to the pipe. End with a quarter circumferential wrap of Outerwrap PVC without tension. In case of wrapping on horizontal pipes, the tape end should face downwards ending at 3 o'clock
Product conditions	[50 °F] and +70 °C [158°F]. Stopaq® Outerwrap PVC should be dry and the temperature should preferably be between +10 °C [50 °F] and +30 °C [86 °F] for the ease of application.		position. Cut off in a tie-form. The applied Outerwrap PVC must look smooth and tight and should be shaped around all details and into corners

	Application instructi	on - Brief version	
	Specific application instructions are available at Seal For Life Industries, e.g. for wrapping of pipes, field joints, fittings, etc.		
	Example -	Horizontal pipelines should be spirally wrapped from	
	Pipe wrapping	left-to-right or from right-to-left. Pipelines	
		positioned with an angle deviating from horizontal	
		should be wrapped from bottom to top (e.g. risers).	

Horizontal pipelines should be spirally wrapped from left-to-right or from right-to-left. Pipelines positioned with an angle deviating from horizontal should be wrapped from bottom to top (e.g. risers). In general Stopaq® Outerwrap PVC should be applied with tension by gently pulling the roll of material, unless stated otherwise in specific application instructions.

Start wrapping Outerwrap PVC with two full circumferential wraps perpendicular to the pipe,

leaving 3 mm [1/8"] of the previously applied Stopaq® Wrappingband visible at the boundary.

Handling and commissioning		
Exposure to loads	Objects coated with Stopaq® Outerwrap PVC should not be exposed to excessive loads e.g. from supports- or lifting equipment.	
Immersion or burying	Immersion or burying is possible immediately after completion of the coating application. Consult data sheets for specific instructions of additional materials used. Backfill and compact with clean sand and filling material without sharp stones or hard lumps of soil.	

	Information	
Application instructical can be obtained by		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.

