

STOPAQ® OUTERWRAP PVC

Product Information

Generic type: UV-resistant, flexible polyvinyl chloride tape, coated with a modified pressure sensitive rubber resin adhesive.

Product description: Stopaq® Outerwrap PVC is used for mechanical protection of corrosion preventing coating systems, such as Stopaq® Wrappingband. The Outerwrap has high puncture and ageing resistance. It is well suited for above ground, underground and submerged applications. The heavy-duty adhesive layer provides high adhesion strength to the outer surface of the Stopaq® Wrappingband as well as to its own backing. The Outerwrap has a good resistance to impacts and abrasion as well as resistance against the influences from alkalis and acids.

Features:

- Easy to apply
- Cold applied
- Good conformability
- Good adhesion to Stopaq® Wrappingband as well as to its own backing
- Excellent impact resistance
- Wide temperature range for service

Benefits:

- Extremely well suited for hand 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
- Very high resistance to ageing, even when exposed to maximum or minimum temperature for longer periods of time
- No curing time

Application examples

Piping 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.

Elbows, Bends, Tees, Reducers and Flanges: Mechanical protection of Stopaq® preventing coating systems applied on carbon steel pipe fittings.

Product properties Stopaq® Outerwrap PVC

Colour	Black or white (matt finish)	
Thickness	Backing: 0.45mm ± 0.045mm Total: 0.5mm ± 0.055mm	
Temperature Range	Service temp:	- 45°C to +65°C
	Short term max.:	+85°C
	During application:	
	– Substrate temp.:	+10°C to +65°C
Peel strength	(EN 12068 annex B)	
	To Wrappingband	0.5 N/mm (@+23°C)
	Layer to layer	0.5 N/mm (@+23°C)
Tensile strength	>10 kg/25mm	
Elongation	>200%	
Thermal ageing resistance	(EN 12068 annex E) Elongation at break: E ₁₀₀ /E ₀ : 0.90 E ₁₀₀ /E ₇₀ : 0.98	

Properties of coating system comprising Stopaq® Wrappingband CZH and Stopaq® Outerwrap PVC

Thickness	2.8 – 3.2 mm
Impact resistance	Tested at 15 J (EN 12068 annex H) at -45°C : no holidays (5 min) * at +23°C: no holidays (5 min) * at +70°C: no holidays (2 hours) *
Indentation resistance	10N/mm ² (EN 12068 annex G) at -45°C : no holidays (5 min) * at +23°C, no holidays (5 min) * at +70°C, no holidays (2 hours) * after removal of load
Self-healing effect	Artificial defect Ø 6 mm at -45°C : no holidays (3 months) * at +23°C: no holidays (24 hours) * at +70°C: no holidays (24 hours) * * Self-healing completed

General order information

Product	Stopaq® Outerwrap PVC is available in rolls of various widths and lengths	
	<u>Art. nr.</u>	<u>Packing size</u>
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
White -	1164:	50mm x 30m: 18 pcs/box; 630 pcs/pallet
	1165:	75mm x 30m: 12 pcs/box; 420 pcs/pallet
	1166:	100mm x 30m: 12 pcs/box; 336 pcs/pallet
Packaging	Coiled on cardboard cores. Packed in cardboard boxes.	
Handling	Handle with care. Keep boxes upright.	
Storage	Indoor, dry and clean. Storage temperature below +40°C.	

Application instruction: Preparation		Post application instructions	
Tools and equipment	Scissors, knife and measuring tape.	Visual inspection	The applied Stopaq® Outerwrap PVC must look smooth and tight and should be shaped around all details and into corners
High humidity	Stopaq® Outerwrap PVC can be applied in a humid atmosphere. The surface of the substrate however, should be free from condensing water which can be reached by keeping the temperature at least 3°C above dew point.	Bringing into service	Bringing into service is possible immediately after completion of the coating application. The areas coated with Stopaq® materials should not be exposed to loads, e.g. from supports, lifting equipment, etc.
Work area and substrate	The substrate surface should be dry, clean and protected against negative weather influences.	Backfilling	Backfill and compact with clean sand or filling material without sharp stones or hard lumps.
Tape conditions	Stopaq® Outerwrap PVC should be dry and have a temperature between +10°C to +30°C for the ease of handling and shaping.		

Application instruction – Circumferential pipe wrapping on top of Stopaq® Wrappingband		Stopaq® information	
General	Outerwrap PVC should be applied with tension by pulling the roll of material gently.	Documentation	Extensive information is available on our website. Application instructions, “Stopaq® Technical Standard” and other documentation can be obtained from our head office, from our local distributor or by email to info@stopaq.com
Wrapping direction	Horizontal pipelines should be wrapped circumferentially 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. with risers).	Certified staff	The application of Stopaq® coating systems should always be carried out by certified personnel.
Spiral wrapping	<p>Start wrapping Outerwrap PVC with one full circumferential wrap perpendicular to the pipe, leaving 3 mm of the previously applied Stopaq® Wrappingband visible at the boundary.</p> <p>After the first circumferential wrap, consecutive wraps should have an overlap of ≥ 50%, which can be created by slanted and spiral application of Outerwrap PVC.</p> <p>Be careful not to create any air enclosures and avoid tenting and bridging.</p> <p>Continue slanted wrapping until reaching the boundary of the area to be coated, leaving 3 mm of the previously applied Stopaq® Wrappingband visible at the boundary.</p> <p>End wrapping with one full circumferential wrap 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 position. Cut off with a slight angle, the sharp edge pointing towards the area covered with Outerwrap PVC.</p> <p>In case of above ground application it is recommended to ensure proper adhesion of the tape end by application of Stopaq® Primer.</p>		
Consecutive rolls	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 10 cm.		



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