

PRODUCT DATA SHEET

STOPAQ[®] OUTERWRAP PE

Product Information

Product description: Stopaq[®] Outerwrap PE is a flexible polyethylene mechanical protection tape, provided with a butyl rubber pressure sensitive adhesive. Stopaq[®] Outerwrap PE is used for the mechanical protection of corrosion preventing coating systems such as Stopaq[®] Wrappingband CZ and CZH. It is very 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:

- Complies with ISO21809-3:2016 coating type 13A-2
- 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

Benefits:

- · Very suitable for manual application, especially in hot climates.
- 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
- Very high resistance to ageing, even when exposed to maximum or minimum 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	s of Stopaq [®] Outerwra	ip PE
Colour	Black	
Thickness	0.5 mm	
Temperature range	Service:	-30 °C to +70 °C
	Short term max.:	+90 °C
Peel strength	Before ageing (P ₀): A)	
between layers	• @ +23 °C: ≥ 0.4 N/mm ^{B)}	
	• @ Tmax (+70 °C): ≥ 0).05 N/mm ^{b)}
	After thermal ageing for	100 days at Tmax+20
	°C (90 °C): A) P'100/P'0: ≥ 0.75 B)	
	■ P ₁₀₀ /P ₀ : ≥ 0.75	
	After hot water immersion	on for 100 days at
	Tmax+20 °C (90 °C): A,B)
	■ P'_{100}/P'_{0} : ≥ 0.75	
Thermal ageing		eak after thermal ageing
resistance	for 100 days at Tmax+2	
	■ $1.25 \ge E_{100}/E_0 \ge 0.75$	B)
		after thermal ageing for
	100 days at Tmax+20 °C	C (90 °C):
	■ $E_{100}/E_0 \ge 0.75^{A}$	(R)
Properties of com	plete coating system of H and Stopaq [®] Outerv	comprising Stopaq
Wrappingband CZ	H and Stopaq് Outerv	vrap PE
Thickness	2.8 – 3.2 mm	
Self-healing test	Self-healing of an artifici	al defect of Ø 6 mm:
	• @ +23 °C: no holiday	
Inches the section of	■ @ Tmax (+70 °C): no	
Impact resistance	Tested at 15 J and @ +2	23 °C: 7
Indentation	 no holidays Tested at pressure 1.0 N 	J/mm²· A)
resistance	• @ +23 °C: no holiday	
resistance	thickness ≥ 0.6 mm	@ 20 kv, residuai
	■ @ Tmax (+70 °C): no	holiday @ 20 kV
	residual thickness ≥ 0	
Cathodic	After 28 days: A)	-
disbondment	• @ +23 °C: disbondme	ent 0 mm, no holiday
resistance	■ @ +70 °C: disbondme	
	In all cases self-healing	completed within 24 hr.

ISO 218089-3:2016 coating type 13A-2

Surpasses requirements of ISO21809-3:2016

General order information		
Product	Stopaq® Outerwrap PE is available in rolls, wound on cardboard cores, packed in cardboard boxes: Product dimensions and contents: 2 inch x 100 feet 3 inch x 100 feet 4 inch x 100 feet 6 inch x 100 feet	
Handling	Handle with care. Keep boxes upright.	
Storage	Store indoor, clean and dry, away from direct sunlight in a cool place below +45°C.	

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Application instruc	ction - Job preparation	Example - Pipe
Tools, equipment and auxiliaries	Scissors, knife and measuring tape	wrapping (continued
Additional coating materials	Stopaq® Outerwrap PE is applied on Stopaq® corrosion preventing coating materials, such as: Stopaq® Wrappingband CZ or CZH Stopaq® Paste CZ or CZH Optionally, additional mechanical protective materials may be applied over the Outerwrap, e.g.: Stopaq® Polyester Stopaq® Outerglass Shield XT Stopaq® Soil Stress Arrestor	
High humidity	Stopaq [®] Outerwrap PE can be applied in a humid atmosphere. The substrate should be free from condensing water which can be reached by keeping the temperature at least 3°C above dew point.	
Work area and substrate	The substrate should be dry, clean and protected against negative weather influences. Temperature of the substrate should preferably be above +10°C for the ease of product handling.	
Product conditions	Stopaq [®] Outerwrap PE should be dry and the temperature of the product should preferably be above +20°C for the ease of application.	Handling and o

n instruction - Job preparation		Example - Pipe	After application of the circumferential wraps,
oment ies	Scissors, knife and measuring tape	wrapping (continued	consecutive spiral wraps should have an overlap of ≥ 50%
Stopaq® Outerwrap PE is applied on Stopaq® corrosion preventing coating materials, such as: Stopaq® Wrappingband CZ or CZH Stopaq® Paste CZ or CZH Optionally, additional mechanical protective materials may be applied over the Outerwrap, e.g.: Stopaq® Polyester Stopaq® Outerglass Shield XT Stopaq® Soil Stress Arrestor			Avoid air inclusions. Avoid tenting and bridging
	 Stopaq[®] Wrappingband CZ or CZH Stopaq[®] Paste CZ or CZH Optionally, additional mechanical protective 		Continue spiral wrapping until reaching the boundary of the area to be coated, leaving 3 mm of the previously applied Stopaq® Wrappingband visible at the boundary.
		When more than one roll of Outerwrap PE is needed to continue wrapping, an overlap on the end of the previously applied Outerwrap PE should be created of at least 100 mm.	
ity	Stopag® Outerwrap PE can be applied in a humid atmosphere. The substrate should be free from condensing water which can be reached by keeping the temperature at least 3°C above dew point. The substrate should be dry, clean and		End wrapping with two full circumferential wraps perpendicular to the pipe. End with a quarter circumferential wrap of Outerwrap PE without tension. In case of wrapping on horizontal pipes, the tape end should face downwards ending at 3 o'clock position. Cut off in a tie-form.
protected again Temperature of	protected against negative weather influences. Temperature of the substrate should preferably be above +10°C for the ease of product		The applied Outerwrap PE must look smooth and tight and should be shaped around all details and into corners.
nditions	Stopag® Outerwrap PE should be dry and the	Handling and cor	nmissioning

Application instruction - Brief version		
General	Specific application instructions are available at Seal For Life Industries, e.g. for wrapping of pipes, field joints, fittings, etc.	
Example - Pipe wrapping	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 PE should be applied with tension by gently pulling the roll of material, unless stated otherwise in specific application instructions.	
	Start wrapping Outerwrap PE with two full circumferential wraps perpendicular to the pipe, leaving 3 mm of the previously applied Stopaq® Wrappingband visible at the boundary.	

Handling and commissioning		
Exposure to loads	Objects coated with Stopaq [®] Outerwrap PE 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	
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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 $Anodeflex^{\texttt{w}} - Stopaq^{\texttt{w}} - Polyken^{\texttt{w}} - Covalence^{\texttt{w}} - Powercrete^{\texttt{w}} - Sealtaq^{\texttt{w}} - Blockr^{\texttt{w}} - Easy.Qote^{\texttt{w}} - SynergyQ^{\texttt{w}} - Protecta-mesh^{\texttt{w}}$

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 Seale. Seal For Life Industries makes 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.