

## STOPAQ® OUTERWRAP PVC

### Product Information

**Product description:** Stopaq® Outerwrap PVC is a flexible tape that is used for the mechanical protection of Stopaq® corrosion preventative coating systems for buried and submerged pipelines that further comprise Stopaq® Wrappingband CZ or Stopaq® Wrappingband CZH. It is made of a flexible UV-resistant polyvinyl chloride backing and a modified pressure sensitive rubber resin adhesive. It has good adhesion to the outer surface of the Stopaq® Wrappingband as well as to its own backing. It also provides good resistance to impacts and indentations, and is also resistant to chemicals like alkalis and acids.

#### Features:

- Wide service temperature range
- Good adhesion to Stopaq® Wrappingband and to its own backing
- Good resistance to thermal ageing and to hot water immersion
- Good resistance to impact and indentation
- Supports self-healing of small defects
- REACH compliant, does not contain Substances of Very High Concern (SVHC)

#### Benefits:

- Very well suited for manual application
- Easy to apply, cold application
- Flexible, good conformity to irregular shaped objects
- No curing or waiting time, ready for immediate commissioning

### Application examples

**Pipes and vessels:** As part of Stopaq® corrosion preventative coatings applied on pipelines and vessels.

**Field joints:** As part of Stopaq® corrosion preventative coatings applied on girth-weld joints of pipeline structures.

**Pipe fittings:** As part of Stopaq® corrosion preventative coatings applied on pipe fittings like elbows, bends, tees, reducers and flanges.

### Product properties of Stopaq® Outerwrap PVC

<b>Colour</b>	Black	
<b>Thickness</b>	Backing:	0,45 mm [18 mils] ± 10%
	Total:	0,5 mm [20 mils] ± 10%
<b>Temperature ranges</b>	Thermal resistance:	+90 °C [194 °F]
	Continuous buried and submerged services:	-45 to +70 °C [-49 to 158 °F]
<b>Peel strength between layers</b>	Before ageing <sup>A)</sup>	
	- @ +23 °C [73 °F]: ≥ 0,20 N/mm [≥18 ozf/in]	
	- @ +70 °C [158 °F]: ≥ 0,02 N/mm [≥1.8 ozf/in]	
	After thermal ageing for 100 days @ 90 °C [194 °F]	
	- P <sub>100</sub> / P <sub>0</sub> ≥ 0,50 <sup>A)</sup>	
	After hot water immersion for 100 days at 70 °C [158 °F]	
	P <sub>100</sub> / P <sub>0</sub> ≥ 0,75 <sup>A)</sup>	
<b>Thermal ageing resistance</b>	After thermal ageing for 100 days at +90 °C [194 °F] <sup>A)</sup>	
	- Elastic modulus: E <sub>100</sub> / E <sub>0</sub> ≥ 0,75 <sup>A)</sup>	
	- Elongation at break: E' <sub>100</sub> / E' <sub>0</sub> ≥ 0,75 <sup>A)</sup>	

### Properties of complete coating system

<b>Construction</b>	- 1 layer of Stopaq® Wrappingband CZH - 2 layers of Stopaq® Outerwrap PVC	
<b>Thickness</b>	3,0 ± 0,3 mm [120 ± 12 mils]	
<b>Impact resistance</b>	Tested with 15 J [132 in.lbf] at -45, +23 and +70 °C [-49, +73 and +158 °F] <sup>A), B)</sup> : No holidays	
<b>Indentation resistance</b>	Tested with 1,0 N/mm <sup>2</sup> [145 psi] at -45, +23 and +70 °C [-49, +73 and +158 °F] <sup>A), B)</sup> : - Residual thickness ≥ 0,6 mm [24 mils]	
<b>Cathodic disbondment resistance</b>	Tested at +23 and +70°C [+73 and 158°F] <sup>A), B)</sup> : - Disbondment 0 mm, no holiday. Defect Ø 6 mm [1/4"] self-healed within 1 day.	
<b>Self-healing test</b>	Artificial defect Ø 6mm [1/4"] tested for completion of self-healing: - at -45 °C [-49 °F]: completed < 90 days, no holiday - at +23 °C [+73 °F]: completed < 24 hours, no holiday - at +70 °C [+158 °F]: completed < 24 hours, no holiday	

### General order information

<b>Product</b>	Stopaq® Outerwrap PVC is available in rolls, wound on cardboard cores, packed in cardboard boxes:
<b>Art. Nr.:</b>	<b>Product dimensions and contents:</b>
1120	50mm x 10m [2"x33']: 60 pcs/box;1800 pcs/pallet
1122	50mm x 30m [2"x98']: 18 pcs/box; 630 pcs/pallet
1121	75mm x 30m [3"x98']: 12 pcs/box; 420 pcs/pallet
1125	100mm x 30m [4"x98']: 12 pcs/box;336 pcs/pallet
1126	150mm x 30m [6"x98']: 6 pcs/box; 210 pcs/pallet
1124	400mm x 40m [8"x131]: 4 pcs/box; 72 pcs/pallet
<b>Handling</b>	Handle with care. Keep boxes upright.
<b>Storage</b>	Store indoor, clean and dry, away from direct sunlight in a cool place below +40 °C [104 °F].

Application instruction - Job preparation	
<b>Tools, equipment and auxiliaries</b>	– Scissors, Knife, Measuring tape
<b>Additional coating materials</b>	Stopaq® Outerwrap PVC is applied on Stopaq® corrosion preventative coating materials, such as: <ul style="list-style-type: none"> <li>- Stopaq® Wrappingband CZ or CZH</li> <li>- Stopaq® Paste CZ or CZH</li> </ul> Additional mechanical protective materials may be applied over Stopaq® Outerwrap PVC, e.g.: <ul style="list-style-type: none"> <li>- Stopaq® Polyester</li> <li>- Stopaq® Outerglass Shield</li> </ul>
<b>Work area and substrate</b>	The substrate must be dry, clean and protected against negative weather influences. The substrate should be free from condensing water which can be reached by keeping the temperature at least 3 °C [6 °F] above dew point. Temperature of the substrate should preferably be between +10 °C and +70 °C [50 to 158°F].
<b>Product conditions</b>	Stopaq® Outerwrap PVC must be dry and the temperature should preferably be between +10 °C and +30 °C [50 to 86 °F] for the ease of application.

Application instruction - Brief version	
Specific Stopaq application instructions are available at Seal For Life Industries, e.g. for wrapping of pipes, field joints, fittings, etc.	
<b>Example - Pipe wrapping</b>	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 with two full circumferential wraps perpendicular to the pipe, leaving 3 mm [1/8"] of the previously applied Stopaq® Wrappingband visible at the boundary.  Continue wrapping spirally with an overlap of at least 50%.  Avoid air inclusions. Avoid tenting and bridging.

<b>Example - Pipe wrapping (continued)</b>	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.  When more than one roll of Stopaq® Outerwrap PVC is needed to continue wrapping, an overlap of at least 100 mm [4"] on the end of the previously applied material should be created.  End wrapping with two full circumferential wraps perpendicular to the pipe. End with a quarter circumferential wrap 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.  The applied Stopaq® Outerwrap PVC must look smooth and tight and should be shaped around all details and into corners.
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Handling and commissioning	
<b>Exposure to loads</b>	Objects coated with Stopaq® Outerwrap PVC should not be exposed to excessive loads e.g. from supports- or lifting equipment.
<b>Immersion or burying</b>	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	
<b>Documentation</b>	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 <a href="mailto:info@sealforlife.com">info@sealforlife.com</a>
<b>Certified staff</b>	Application of the described coating system should be carried out by certified personnel.



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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 no 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.