

## STOPAQ® WRAPPINGBAND CL

### Product Information

**Product description:** Stopaq® Wrappingband CL is a corrosion preventing wrap material, adhering extremely well to wet surfaces such as bare - or coated – steel pipelines suffering from condensing water. It is based on a compound containing non-crystalline, low-viscosity, non-crosslinked, (fully amorphous) pure homopolymer Polyisobutene. Stopaq® Wrappingband CL is viscous at the indicated operating temperatures and, due to its liquid nature, flows into all irregularities of the substrate. The compound does not cure and is unable to build up internal stress.

Stopaq® Wrappingband CL is applied as elementary part of Stopaq® Coating Systems and requires application of mechanical protective layers like Stopaq® Outerwrap. This improves impact and indentation resistance of the coating system and ensures adequate performance of the corrosion preventing properties.

#### Features:

- Controlled cold flow providing permanent inflow into the finest pores of the substrate
- Resistance to low temperatures without getting brittle
- Conforms to irregular shapes
- Low surface tension; adheres on many types of dry and wet substrates at a molecular level
- Surface tolerant: no blasting techniques required, wire brushing is sufficient (ISO 8501-1: St 2)
- Constant film thickness
- Adhesion based on vanderWaals forces

#### Benefits:

- Safe to use. No physical, health or environmental hazards
- Fast and easy to apply, even on wet surfaces
- Easy to control application
- Can be moulded onto various types of irregular shaped objects

### Application examples

**Coating repair of sweating pipelines:** For protection against external corrosion of steel pipelines situated in environments with high relative humidity.

### Product properties of Stopaq® Wrappingband CL

<b>Colour</b>	Dark green (compound)
<b>Thickness</b>	2,0 mm [80 mils] ± 10% <sup>A)</sup>
<b>Temperature ranges</b>	Operational -20 to +50 °C [-4 to +122 °F] Short term max. +70 °C [+158 °F]
<b>Drip resistance</b>	Tested 48h @ +85 °C [+185 °F] <sup>A)</sup> – No dripping of compound
<b>Adhesion</b>	Peel tests on carbon steel St 2 cleanliness (ISO 8501-1) whereby the coating was applied under the following conditions: – Dry – Wetted with fresh water – Wetted with 3% NaCl solution  Peel adhesion was tested at +23 °C [+73 °F] and at +50 °C [+122 °F]. In all cases: – Cohesive separation mode – Coverage ≥ 95%
<b>Lap shear test</b>	Tested on steel St 2 cleanliness at +23 °C [+73 °F] and at +50 °C [+122 °F]. In all cases: <sup>A)</sup> – Cohesive separation mode – Coverage ≥ 95%

### Properties of coating system comprising Stopaq® Wrappingband CL

<b>Construction</b>	1. Stopaq® Wrappingband CL: 1 layer. 2. Stopaq® Outerwrap PVC or Stopaq® Outerwrap HSPLEX: 2 layers
<b>Total thickness</b>	approx. 3 mm [1/8 "] <sup>A)</sup>
<b>Impact resistance</b>	Tested @+23 °C [+73 °F]: ≥ 8 J [70 in.lbf] <sup>A)</sup>

<sup>A)</sup> In accordance with ISO 21809-3:2016

### General order information

<b>Product</b>	Stopaq® Wrappingband CL is available in rolls with following dimensions (W x L):  <b>Art. Nr.:</b> <u>Product dimensions and contents:</u> 4501 100mm x 10m; 6 pcs/box
<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 +45 °C [113 °F]. Unlimited shelf life.

Application instruction - Job preparation		Application instruction - Brief version	
<b>Tools, equipment and auxiliaries</b>	<ul style="list-style-type: none"> <li>– Surface preparation tools like power tooled wire brushes</li> <li>– Scissors, Knife, Measuring tape</li> <li>– Dry lint-free cloths</li> <li>– Personal protective gear</li> </ul>	See specific Stopaq coating instructions for application of Stopaq® Wrappingband CL	
<b>Additional coating materials</b>	<p>The following additional materials are required as described in the specific coating instruction:</p> <ul style="list-style-type: none"> <li>– Stopaq® Outerwrap PVC, or,</li> <li>– Stopaq® Outerwrap HSPEX</li> </ul> <p>In order to improve resistance to impacts and the like, the following additional mechanical protective materials can be applied:</p> <ul style="list-style-type: none"> <li>– Stopaq® Outerglass Shield XT Grey</li> </ul>	<b>Wrapping</b>	Start with removal of a small part of the transparent release liner and apply the Stopaq® Wrappingband CL onto the substrate. Apply the Wrappingband by moulding it to the substrate and minimize air- or water entrapment underneath the Wrappingband. Avoid strong pulling force on the roll of material and the Wrappingband.
<b>Application conditions</b>	The ambient and surface temperature during application should be > +5 °C [41 °F]. There is no need for the surface to be dry.	<b>Release liner</b>	Do not remove the transparent release liner completely before application of the Stopaq® Wrappingband CL. Remove just prior to application onto the substrate.
<b>Application instruction - Surface preparation</b>		<b>Overlap of wraps</b>	Side-by-side overlap: ≥ 10 mm [3/8"] Consecutive rolls: ≥ 100 mm [4"]
<b>General</b>	All substrates must be free from contamination. Biological growth. Mill-scale, loose rust, loose remainders of old coating, oil, grease and other adhering matter need to be removed. Water jetting equipment may be used to obtain a sufficient clean substrate.	<b>Visual inspection</b>	The appearance of Stopaq® Wrappingband CL should look smooth and tight, and should cover all details.
<b>Substrate cleanliness</b>	The entire steel substrate should at least be cleaned to St 2 cleanliness grade (ISO 8501-1). Start and end section of the area to be coated should be thoroughly cleaned to bare steel. Roughness profile is not essential for adhesion. Areas with existing coating should be cleaned and de-glossed.	<b>Mechanical protection</b>	Stopaq® Wrappingband CL must be protected against impacts, indentations, and other influences within the shortest period of time possible after finishing application. This is obtained by subsequent application of additional coating materials as per the specific application instruction, e.g. by application of Stopaq® Outerwrap PVC or Stopaq® Outerwrap HSPEX.
<b>Removal of water</b>	Any excess of water on the substrate – like droplets hanging at 6 o' clock position of pipe - shall be removed by wiping with lint-free clothes just prior to application of Stopaq® Wrappingband CL to the substrate. The substrate however does not need to be completely dry, a minor film of water is allowed to remain on the substrate.	<b>Handling and commissioning</b>	
		<b>Exposure to loads</b>	Objects coated with Stopaq® Wrappingband CL should not be exposed to loads e.g. from supports- or lifting equipment.
		<b>Commissioning</b>	Commissioning is possible immediately after completion of the coating application. Consult data sheets for specific instructions of additional materials used.
		<b>Information</b>	
		<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@stopaq.com">info@stopaq.com</a>
		<b>Certified staff</b>	Application of the described coating system should be carried out by certified personnel.