

## STOPAQ® WRAPPINGBAND CZH-DS

### Product Information

**Product description:** Stopaq® Wrappingband CZH-DS is a double-sided corrosion preventing wrap material adhering extremely well to steel and factory applied pipeline coatings like PE, PP and FBE.

Stopaq® Wrappingband CZH-DS is a non-toxic, cold-applied, visco-elastic prefabricated wrap coating, based on a compound consisting of non-crystalline, low-viscosity, non-crosslinked (fully amorphous), non-reactive Polyisobutene.

Stopaq® Wrappingband CZH-DS is viscous at the indicated operating temperatures. Due to its liquid nature it has a set of unique properties like cold-flow into all irregularities of the substrate and self-healing of the complete coating system. The compound does not cure and is unable to build up internal stress. Stopaq® Wrappingband CZH-DS is fully resistant to water and has a very low gas- and water vapour permeability.

Stopaq® Wrappingband CZH-DS requires application of an additional mechanical protective layer like Stopaq® Outerwrap or Stopaq® High Impact Shield. This improves impact and indentation resistance of the coating system and supports the self-healing ability of small damages like dents and cuts. Optionally a rigid mechanical protective layer can be applied on top like Stopaq® Polyester or Stopaq® Outerglass Shield.

#### 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 substrates at a molecular level
- Adhesion based on vanderWaals forces
- Constant film thickness
- No osmosis or underfilm migration of moisture
- No cathodic disbondment
- Inert to ageing and weathering
- Environmentally friendly, no health and safety hazards to humans
- Resistant to many chemicals like water, salts, acids, alkalis, polar solvents, etc. For additional information, please consult Stopaq B.V.

#### Benefits:

- Fast and easy to apply
- Easy to control application
- Surface tolerant: no blasting techniques required, wire brushing is sufficient (ISO 8501-1: St 2)
- Can be moulded onto various types of irregular shaped objects
- Cathodic Protection (CP) of steel structures is not affected
- Guaranteed performance

### Application examples

**Piping and Vessels:** For protection against external corrosion of buried, immersed or above ground carbon steel, alloyed steel and ductile iron pipelines structures and reservoirs.

**Field joints:** For protection against external corrosion of buried, immersed or above ground carbon steel, alloyed steel and ductile iron pipeline girth-weld joints.

**Fittings:** For protection against external corrosion of buried, immersed or above ground carbon steel, alloyed steel and ductile iron pipe fittings such as elbows, bends, tees, reducers, flanges, etc.

**Pipe coating repair:** For repair and rehabilitation and protection against external corrosion of pipeline coating defects.

**Seams and joints:** For sealing of seams and joints in steel structures.

### Properties of Stopaq® Wrappingband CZH-DS

<b>Colour</b>	Green
<b>Thickness</b>	2.0 ± 0.2 mm
<b>Density</b>	1.5 ± 0.1 g/cm <sup>3</sup> (ISO 1183-1)
<b>Temperature ranges</b>	Operational: -45°C to +70°C Short term: +90°C
<b>Water absorption</b>	< 0.03% (ASTM D570)
<b>Permeability</b>	< 0.2 g/m <sup>2</sup> /day (ASTM E96/E96M)
<b>Glass transition temp.</b>	≤ - 65°C <sup>A)</sup>
<b>Drip resistance</b>	Tested 72h@+130°C <sup>A)</sup> – No dripping of compound
<b>Specific electrical insulation resistance</b>	Rs <sub>100</sub> > 10 <sup>8</sup> Ω.m <sup>2</sup> <sup>A)</sup>
<b>Peel test</b>	Tested on steel (Sa 2½, St 2 and St 3) and plant coatings PP, PE and FBE <sup>A)</sup> . Results on all substrates: – @+23°C ≥ 0.2 N/mm – @+70°C ≥ 0.02 N/mm In all cases: – Cohesive separation mode, ≥ 99% coverage of surface, and 0.6 mm residual thickness

<sup>A)</sup> According to ISO 21809-3:2008/Amendment 1:2011

### General order information

<b>Product</b>	Stopaq® Wrappingband CZH-DS is available in rolls of various widths and lengths:
<b>Art. Nr.:</b>	<b>Product dimensions and contents:</b>
6701	50mm x 10m; 12 pcs/box; 360 pcs/pallet
6704	200mm x 20m: 2 pcs/box; 96 pcs/pallet
	Other sizes on request.
<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. Unlimited shelf life.

Application instruction - Job preparation	
<b>Tools, equipment and auxiliaries</b>	<ul style="list-style-type: none"> <li>– Temperature probe, Dew point tester, High voltage holiday tester</li> <li>– Scissors, Knife, Measuring tape</li> <li>– Abrading pads, Wire brushes</li> <li>– SFL Substrate Cleaner or Isopropyl alcohol, cas. nr. 67-63-0</li> <li>– Personal protective gear</li> </ul>
<b>Additional coating materials</b>	Depending on type of application, various additional mechanical protective materials might be needed: <ul style="list-style-type: none"> <li>– Stopaq® Outerwrap PVC / PE / HSPE / HSPEX / HTPP</li> <li>– Stopaq® High Impact Shield</li> <li>– Stopaq® Polyester</li> <li>– Stopaq® Outerglass Shield</li> </ul>
<b>High humidity</b>	Stopaq® Wrappingband CZH-DS 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.
<b>Work area and substrate</b>	The substrate should be dry, clean and protected against negative weather influences.
<b>Product conditions</b>	Stopaq® Wrappingband CZH-DS should be dry and the temperature should preferably be between +20°C and +40°C for the ease of application.

Application instruction - Surface preparation	
<b>General</b>	The area to be coated has to be clean, dry, and free from oil, grease and dust. All contamination including mill-scale has to be removed.
<b>Degreasing</b>	Degrease surfaces with isopropyl alcohol and e.g. a lint-free cloth.
<b>Salts and bacteria</b>	No need for additional cleaning.
<b>Preventing condensation of water</b>	Prior to and during the application, the temperature of the substrate(s) must be at least 3°C above the dew point.
<b>Substrate temperature</b>	Temperature of the substrate should not be beyond -30°C and +70°C, and should preferably be between +20°C and +40°C for the ease of application. Preheating may be required.
<b>Steel</b>	Minimum requirement for surface preparation is St 2 according to ISO 8501-1. Roughness profile is not essential for adhesion.
<b>Bitumen</b>	Remove loose bitumen. For proper adhesion, make sure that the surface is clean and dry. Heating the surface to +60°C may be required. Avoid recoating of moist bitumen parts.
<b>Other substrates</b>	De-gloss and degrease the surfaces by using an abrasive pad and isopropyl alcohol.
<b>Cleanliness check</b>	Take a piece of Wrappingband of ± 50mm x 150mm, remove the release foil and fold it back for about 25 mm. Put the Wrappingband onto the surface, press it firmly and leave it for 5 minutes. Pull the Wrappingband from the substrate with an angle of app. 135 deg. and a speed of 100 mm/min. Cohesive separation mode should occur and coverage of the surface with remaining material should be ≥ 85%. If this is less, surface cleaning is insufficient.

Application instruction - Brief version	
Specific application instructions are available at Seal For Life Industries, e.g. for wrapping of pipes, field joints, fittings, etc.	
<b>Wrapping</b>	Start with removal of a small part of the inner release liner and apply the Wrappingband on the substrate. Apply Wrappingband without any tension onto the substrate. Avoid air inclusions. Mould the Wrappingband tight onto the substrate.
<b>Release foil</b>	Do not entirely remove the inner release foil before application of the Wrappingband. Remove just prior to application of the Wrappingband to the surface.  Remove the outer release foil prior to overlapping.
<b>Overlap of wraps</b>	Side-by-side overlap: ≥ 10 mm Consecutive rolls: ≥ 50 mm Overlap on factory applied coating: see specific Stopaq coating instructions.

Application instruction - Quality control	
<b>Visual inspection</b>	The appearance of Stopaq® Wrappingband CZH-DS must look smooth and tight and should be shaped around all details and into corners.
<b>Holiday detection</b>	Immediately after application of Stopaq® Wrappingband CZH-DS, holiday testing should be carried out with a voltage of 15 kV. A brush probe is recommended. No further testing is required.

Application instruction - Mechanical protection	
<b>Mechanical protection</b>	Once applied, Stopaq® Wrappingband CZH-DS should be protected against impacts, indentations, soil pressure and other influences by application of Stopaq® Outerwrap or Stopaq® High Impact Shield, eventually followed by Stopaq® Polyester or Stopaq® Outerglass Shield. Please consult Stopaq for further information.

Handling and commissioning	
<b>Exposure to loads</b>	Objects coated with Stopaq® Wrappingband CZH-DS should not be exposed to 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 website. 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.



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