

## STOPAQ® WRAPPINGBAND CZH

### Product Information

**Generic type:** Universal, inert, amorphous, non-cross linked monolithic polymer wrap coating with cold flow, self-healing, viscous-elastic properties. STOPAQ® Wrappingband CZH is a non-toxic wrap material adhering extremely well to steel and line pipe coatings like PE, PP, FBE. It is fully resistant to water and has a very low gas- and watervapor permeability.

**Product Description:** STOPAQ® Wrappingband CZH is always viscous at the temperatures of use, -45°C up to +70°C (cold flow) and therefore flows, into all irregularities on the steel surface and is able to self-heal small damages like dents and cuts.

The STOPAQ® Wrappingband CZH impact resistance can be improved by covering it with a mechanical protective layer e.g. Outerwrap PVC, Outerwrap PE, High Impact Shield or Polyester.

#### Features:

- Cold flow providing permanent inflow into the finest pores of the substrate
- High temperature resistance up to +85°C max.
- Conforms to any shape
- Low surface tension; adheres on all dry substrates at a molecular level
- Very surface tolerant: no grit-blasting, only wire brushing or hand tool cleaning required
- Constant film thickness
- Non-crystalline
- Chemically stable
- Inert and amorphous

#### Benefits:

- Harmless to environment and workers
- Fast and easy to apply
- Easy to control during application
- Can be modeled on all irregular shape objects
- No osmosis or under creep problems possible
- No cathodic disbondment
- CP function is not affected by STOPAQ®
- Guaranteed performance

### Application examples

**Piping & Vessels:** Carbon steel large diameter pipelines (underground, above ground, immersed), structures and reservoirs.

**Field Joints:** Field-weld joints of pipelines, on-shore as well as offshore.

**Shaped parts:** Bends, Tee's, Flanges, Insulation flanges, Valves, Manhole Covers ad Cat-welds.

**Repair coating:** Rehabilitation and repair of existing coating systems.

### Product Properties\_STOPAQ® Wrappingband CZH

<b>Colour</b>	Green
<b>Thickness</b>	1,8mm – 2,2mm (ISO 9001)
<b>Density</b>	1,4 – 1,6g/cm <sup>3</sup> (NEN 1833)
<b>Elongation</b>	> 100% (ASTM D 1000)
<b>Moisture absorption</b>	< 0,03% (ASTM D 570)
<b>Permeability</b>	0,2g/m <sup>2</sup> /day (ASTM E 96)
<b>Temperature Ranges</b>	Operation temp.: <ul style="list-style-type: none"> <li>• -45°C up to +70°C</li> </ul> Short term max.: <ul style="list-style-type: none"> <li>• up to +85°C</li> </ul> Application temp. substrate: <ul style="list-style-type: none"> <li>• -30°C to +70°C</li> </ul> Application temp. STOPAQ®: <ul style="list-style-type: none"> <li>• +5°C to 70°C</li> </ul>

<b>Specific Electrical Resistance</b>	Rs > 10 10 <sup>8</sup> Ohm x m <sup>2</sup> (EN 12068)
<b>Adhesion</b>	Tested at 23°C and 70°C (EN 12068) No adhesive failure. (C-Steel, PE, PP and FBE: residual protective layer: > 0,5mm).
<b>Salt spray resistance</b>	Tested for 720h 5% NaCl 85°C (ASTM B 117) No corrosion detected
<b>Peel test</b>	Cohesive Fracture

### Product Properties\_STOPAQ® Wrappingband + STOPAQ® Outerwrap (50% Overlap)

<b>Total Thickness</b>	2,8mm – 3,2mm (ISO 9001)
<b>Cathodic disbondment resistance</b>	Tested at 23°C and 70°C (EN 12068) No disbondment observed. Defect (Ø 6mm) self-healed within 1 day.
<b>Impact resistance</b>	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 (< 60 min.)
<b>Indentation resistance</b>	10 N/mm <sup>2</sup> (EN 12068/ annex G) At -45°C: no holidays (< 5 min.) At +23°C: no holidays (< 5 min.) At +70°C: no holidays (< 60 min.)
<b>Self healing ability</b>	Defect Ø 6mm At +70°C: < 1day At +23°C: < 1day At -45°C: < 90days

### General Product Information

<b>Product</b>	STOPAQ® Wrappingband CZH is available in boxes.
<b>Packaging</b>	50mmx5m: 24 rolls – 576 per pallet 50mmx10m: 12 rolls – 360 per pallet 100mmx10m: 6 rolls – 180 per pallet 200mmx10m: 2 rolls – 96 per pallet 200mmx20m: 2 rolls – 96 per pallet 300mmx10m: 2 rolls – 64 per pallet
<b>Handling</b>	Handle with care. Keep the rolls upright.
<b>Storage</b>	Indoor, clean and dry. No shelf-life.

**PRODUCT DATA SHEET | STOPAQ® WRAPPINGBAND CZH**
**Application instruction\_Preparation**

<b>Application equipment</b>	1 Temperature probe, Dew point meter and 20 kV holiday tester. 2 Scissors, Knife, and Measuring tape. 3 Abrading pads and Wire brushes 4 Safety goggles, Hard hat & Gloves
<b>High humidity</b>	STOPAQ® Wrappingband can be applied in a humid atmosphere that does not reach the dew point.
<b>Work area and substrate</b>	The work area and substrate should be protected against negative weather influences.
<b>STOPAQ® conditions</b>	The Wrappingband CZH should be dry and have a temperature, (min. +5°C) for the ease of handling and shaping.

**Application instruction\_Surface Preparation**

<b>General</b>	The areas to be coated have to be clean, dry, and free from grease and dust. All contamination has to be removed.
<b>Degreasing Salts and Bacteria</b>	Degrease surfaces with Isopropanol. No need for additional cleaning.
<b>Condensation - 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>Steel</b>	Surface preparation minimal St2 – St3 according ISO 8501-3
<b>Bitumen repair</b>	Remove loose bitumen. For immediate adhesion, make sure that the surface is clean and dry. Heating up the surface to 60°C might be recommended. Avoid the recoating of moisturous bitumen parts. See the Technical Standard for repair instructions.
<b>Other substrates</b>	De-gloss and de-grease the surfaces by using an abrasive pad and isopropanol for faster adhesion.
<b>Final control</b>	The substrates prepared for coating, should be clean, dry and free of dust according to dust grade ISO 8502-3, grade 3.

**Application instruction\_Brief version**

<b>Wrapping</b>	Apply the sticky side of the Wrappingband on the substrate. Do not apply with TENSION, but LAY the Wrappingband on the substrate. Avoid air-enclosures. Massage the Wrappingband tight on the substrate surfaces.
<b>Release foil</b>	Do not remove the release foil before application of the CZH. Remove only at the moment of adhesion of the CZH when applied to the surface.
<b>Overlap of wrap</b>	STOPAQ® on STOPAQ®: 10mm, STOPAQ® on factory coated pipeline: 50mm.
<b>Connection to- &amp; overlap on Bitumen</b>	Apply STOPAQ® on the steel: Tight, shoulder to shoulder to the bitumen coating. Finally apply a 100mm wide sheet over the STOPAQ®/bitumen joint with 50mm overlap on each material.
<b>Overlap of ends of STOPAQ® wraps Spiral wrap on pipes</b>	STOPAQ® on STOPAQ®: < 50mm. Start with one, full straight wrapping, follow with one wrap from “straight to spiral” and then continue spiral wrapping. End with one straight, circumferential wrapping.

<b>Field joints</b>	Two wide STOPAQ® Wrappingband CZH sheets are used. Each (straight) wrap should overlap the factory coating with min. 50mm and the weld seam with min. 30mm.
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**Application instruction\_Final steps**

<b>Visual inspection</b>	The applied Wrappingband CZH must look smooth and tight and should be shaped around all details and into corners.
<b>Quality inspection</b>	Immediately after application, holiday testing can be carried out with a High Voltage test unit (15 – 25kV). Test with minimum 5kV per mm coating thickness. A brush probe is recommended. No further testing is required.

**Application instruction\_Mechanical protection**

<b>Mechanical protection</b>	Follow systems are available: Outerwrap PVC or PE, - Polyester, or – High Impact Shield (shrinkable). (see <a href="http://www.stopaq.com">www.stopaq.com</a> for separate PDS and MSDS)
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**Bringing into service**

<b>Bringing into service</b>	Backfilling is possible immediately after completion of the coating application. The areas coated with STOPAQ® should not be exposed to loads from supports and lifting equipment.
<b>Backfilling</b>	Backfill and compact with clean sand and fill material without sharp stones or hard lumps of soil.

**STOPAQ® Information and Warranty**

<b>Documentation</b>	Extensive information is available on our web-site. Application instructions, “STOPAQ® Technical Standard” can be required from our head office or local distributor; <a href="mailto:info@stopaq.com">info@stopaq.com</a>
<b>Certified staff</b>	The application of STOPAQ® CZH coating system should always be carried out by certified personnel.
<b>STOPAQ® performance</b>	Extensive laboratory tests and more than 10 years of service in extreme wet and chemical aggressive environments have proven that Corrosion, Bacterial Growth or Stress Corrosion Cracking cannot develop on substrates, coated with STOPAQ®.
<b>Long term guarantee</b>	STOPAQ® offers a 30 year guarantee on the material properties of the STOPAQ® CZH materials as described in this document. The lifetime of the STOPAQ® CZH materials is more than twice this period. The product is NSF Certified.


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