

## STOPAQ® WRAPPINGBAND CZHT

### Product Information

**Generic type:** High temperature resistant non-cross-linked monolithic prefab polymer wrap coating with cold flow, self-healing, viscous-elastic properties. STOPAQ® Wrappingband CZHT 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 an extremely low gas- and water vapor permeability.

**Product Description:** STOPAQ® Wrappingband CZHT is always viscous at the temperatures of use, -45°C up to +95°C (cold flow) and therefore flows, into all irregularities on the steel surface and is healed automatically damages like dents and cuts. The STOPAQ® Wrappingband CZHT impact resistance is improved by covering it with a mechanical protective layer e.g. Outerwrap HTPP, Vinyl Ester or a High Impact Shield HT.

#### Features:

- Cold flow providing permanent inflow into the finest pores of the substrate
- High temperature resistance up to +120°C max.
- Conforms to any shape
- Low surface tension; adheres on all dry substrates at a molecular level
- 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 onto all irregular shaped objects
- No osmosis or under creep
- No cathodic disbondment
- CP function is not affected
- Guaranteed performance

### Application examples

**Piping & Vessels:** Carbon steel pipelines (underground, above ground, off-shore) 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 and Cat-welds.

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

### Product Properties\_STOPAQ® Wrappingband CZHT

<b>Colour</b>	Green
<b>Thickness</b>	1,8mm – 2,2mm (ISO 9001)
<b>Density</b>	1,4 – 1,6 g/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>	0,2 g/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 +95°C</li> </ul> Short term max.: <ul style="list-style-type: none"> <li>• up to +120°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 at Steel, PE, PP and FBE: residual protective layer: > 0,5mm.
<b>Salt spray resistance</b>	Tested for 720 h 5% NaCl 85°C (ASTM B 117) No corrosion detected
<b>Peel test</b>	Cohesive Fracture
<b>General Order Information</b>	
<b>Product</b>	STOPAQ® Wrappingband CZHT is available in rolls of 100mmx10m and 200mmx10m. Other sizes on request.
<b>Packaging</b>	All rolls are supplied in boxes. 100mmx10m – 6 per box/180 per pallet 200mmx10m – 2 per box/96 per pallet
<b>Handling</b>	Handle with care. Keep the boxes upright.
<b>Storage</b>	Indoor, dry and clean. No shelf-life.

**Application instruction Preparation**

**Application equipment** 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.

**High humidity** STOPAQ® Wrappingband CZHT can be applied in a humid atmosphere that does not reach the dew point.

**Work area and substrate** The work area and substrate should be protected against negative weather influences.

**STOPAQ® conditions** The Wrappingband CZHT should be dry and have a temperature (20 - 30°C) for the ease of handling and shaping.

**Application instruction Surface Preparation**

**General** The areas to be coated have to be clean, dry, and free from grease and dust. All contamination has to be removed.

**Degreasing Salts and Bacteria** Degrease surfaces with Isopropanol. No need for additional cleaning.

**Condensation - water** Prior to – and during the application, the temperature of the substrate(s) must be at least 3°C above the dew point.

**Steel** Surface preparation minimally st 2/3 – ISO 8501-3

**Cleanliness check** Apply a patch of CZHT to the steel surface for min. 5 minutes at a steel surface temperature of min. 25°C; remove the patch and check from the backside the cleanliness.

**Other substrates** De-gloss and de-grease the surfaces by using an abrasive pad and isopropanol for faster adhesion.

**Final control** The substrates prepared for coating, should be clean, dry and free of dust according ISO 8502-3, grade 3.

**Application instruction Brief version**

**Wrapping** Apply the sticky side of the Wrappingband CZHT on the substrate. Do not apply with TENSION, but LAY the Wrappingband on the substrate. Avoid air-enclosures. Massage the Wrappingband CZHT tight on the substrate surfaces.

**Overlap of wrap** STOPAQ® on STOPAQ®: 10mm, STOPAQ® on factory coated pipeline: 50mm.

**Release foil** Do not remove the release foil before application of the CZHT. Remove only at the moment of adhesion of the CZHT to the surface.

**Overlap of ends of STOPAQ® wraps Spiral wrap on pipes** STOPAQ® on STOPAQ®: min. 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.

**Field joints** Two wide STOPAQ® Wrappingband CZHT sheets are used. Each (straight) wrap should overlap the factory coating with min. 50mm and the weld seam with min. 30mm.

**Application instruction Final steps**

**Visual inspection** The applied Wrappingband CZHT must look smooth and tight and should be shaped around all details and into corners.

**Quality inspection** 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**

**Mechanical protection** Follow systems are available: - Vinyl Ester or - High Impact Shield HT or - Outerwrap HTPP (Request for separate PDS and MSDS at [www.stopaq.com](http://www.stopaq.com))

**Bringing into service**

**Bringing into service** 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.

**Backfilling** Backfill and compact with clean sand and fill material without sharp stones or hard lumps of soil.

**STOPAQ® Information and Warranty**

**Documentation** Extensive information is available on our website. Application instructions, "STOPAQ® Technical Standard" can be required from our head office or via the local distributor; [info@stopaq.com](mailto:info@stopaq.com)

**Certified staff** The application of STOPAQ® CZHT coating system should always be carried out by certified personnel.

**STOPAQ® performance** 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®.



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