

## STOPAQ® CZ PASTE

### Product Information

**Generic type:** Non cross-linked, polymer compound with cold flow-, self healing-, adhesive- and viscous-elastic properties. STOPAQ® CZ Paste is a non toxic, corrosion protective mastic sheet 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 water vapour permeability.

**Product description:** STOPAQ® CZ Paste is always viscous at the temperatures of use: -45°C up to +50°C (cold flow) and therefore flows into all irregularities on the substrate surface. The compound does not cure and is unable to build-up internal stresses. The mechanical resistance of the STOPAQ® CZ Paste is improved by covering it with a protective layer of non-woven PP (Geotextile), prior to mechanical protection with STOPAQ® Outer Wrap, High Impact Shield or Polyester.

#### Features:

- Cold flow providing permanent inflow into the finest pores of the substrate
- Low temperature resistance down to -50°C max.
- Conforms easily 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
- Easy to mould at lower temperatures
- Can be modelled onto all irregular shaped objects
- No osmosis or undercreep possible
- No cathodic disbondment
- CP function is not affected
- Guaranteed performance

### Application examples

**Flange protection:** For external corrosion protection and moulding of buried and above ground situated flange connections, Insulation flanges and flange seals.

**Valves:** For external corrosion protection and moulding around valves, integrated in pipeline systems. Shaped parts: For external corrosion protection of manhole covers, bolts & nuts.

**Cat-welds:** For protection of welded CP-wire connections on pipelines and other cathodic protected steel constructions

**Coating repairs:** For filling of corrosion pits and voids, prior to application of general STOPAQ® surface coating.

### Product Properties\_STOPAQ® CZ Paste

<b>Color</b>	Green
<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>	> 0,2 g/m <sup>2</sup> /day (ASTM E 96)
<b>Temperature Ranges</b>	Operation temp.: <ul style="list-style-type: none"> <li>• -45°C - +50°C</li> </ul> Application temp. substrate: <ul style="list-style-type: none"> <li>• between -30°C and +50°C</li> </ul> Application temp. STOPAQ® CZ Paste: <ul style="list-style-type: none"> <li>• Between +5 to +50°C</li> </ul>
<b>Specific Electrical Resistance</b>	Rs > 10 <sup>E</sup> +8 Ω/m <sup>2</sup> (EN 12068)
<b>Adhesion</b>	Tested at 23°C and 70°C (EN 12068)
<b>Salt spray resistance</b>	Tested for 720h 5% NaCl at 85°C (ASTM B 117) No corrosion detected

### Product Properties\_STOPAQ® CZ Paste / Geotextile + STOPAQ® Outer Wrap

<b>Total Thickness</b>	23mm thickness
<b>Impact resistance</b>	Tested at 15 J (EN 12068) at -45°C: no holidays (< 5 min.) at +23°C: no holidays (< 5 min.) at +70°C: no holidays (< 120 min.)
<b>Indentation resistance</b>	10 N/mm <sup>2</sup> (EN 12068) at 23°C, no holidays (EN 12068) at 70°C, no holidays (< 20 min.)

### General Order information

<b>Product:</b>	STOPAQ® CZ Paste is available in 2 kilo sheets protected by siliconized foil.
<b>Packaging:</b>	In Boxes: 6 per box – 288 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 instruction_Final steps	
<b>Application equipment</b>	1. Temperature probe, Dew point meter and 20 kV holiday tester.) 2. Scissors, Putty knife. 3. Abrading pads and Wire brushes. 4. Safety goggles, Hard hat & Gloves.	<b>Visual inspection</b>	The applied Mouldable Paste CZ must look smooth and tight and should cover all details with a thickness not less than 20mm.
<b>High humidity</b>	STOPAQ® CZ Paste can be applied in a humid atmosphere that does not reach the dew point.	<b>Holiday detection</b>	Immediately after application of the Paste, a holiday testing should be carried out with a High Voltage test unit (15 - 25kV). Test with minimum 15kV. A brush probe is recommended. No further testing is required.
<b>Work area and substrate</b>	The work area and substrate should be protected against negative weather influences.	<b>Application instruction_Mechanical protection</b>	
<b>STOPAQ® conditions</b>	The Mouldable Paste CZ should be dry and have an ambient temperature for the ease of shaping.	<b>Mechanical Protection</b>	The ready shaped paste layer should be protected against impact, soil pressure or other influences by means of a layer of woven geotextile and a wrap of STOPAQ® Outer wrap, or Polyester, starting and ending on the Border-zone wraps.
Application instruction_Surface Preparation		Bringing into service	
<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>Handling</b>	Areas coated with STOPAQ® should not be exposed to loads from supports or lifting equipment.
<b>Degreasing</b>	Degrease surfaces with isopropanol.	<b>Immersion / backfilling</b>	Immersion or burial is possible immediately after completion of the coating application. Backfill and compact with clean sand and fill material without sharp stones or hard lumps.
<b>Salts and Bacteria</b>	No need for additional cleaning.	<b>STOPAQ® Information and Warranty</b>	
<b>Condensation - water</b>	Prior to - and during the application, the substrate(s) must be at least 3°C above the dew point.	<b>Documentation</b>	Extensive information is available on our web-site. Detailed application instructions, "STOPAQ® Technical Standard" can be acquired from our head office or local distributor; <a href="mailto:info@stopaq.com">info@stopaq.com</a>
<b>Steel</b>	Surface preparation minimal St 2/3 according to ISO 8501-3.	<b>Certified staff</b>	The application of STOPAQ® coating Systems should always be carried out by certified personnel.
<b>Bitumen</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>Long term guarantee</b>	STOPAQ® offers a 30 year guarantee on the properties of the STOPAQ® CZ materials as described in this document. The lifetime of the STOPAQ® CZ materials is more than twice that period.
<b>Other substrates</b>	De-gloss and de-grease the surface by using an abrasive pad and isopropanol.		
<b>Final control</b>	Substrates prepared for coating, should be clean, dry and free of loose rust/coating and dust according to ISO 8502-3, grade 3.		
Application instruction_Application			
<b>Border zones</b>	Apply wraps of 100mm wide STOPAQ® Wrappingband CZ in the border areas outside the planned Mouldable Paste CZ area.		
<b>Area covering and shaping</b>	Apply lumps of mouldable paste around the shaped objects. Press the paste. Avoid air enclosures. After modelling, the surface should be smooth with a shape suited for wrapping with the final outer wrap.		
<b>Re-inforcing</b>	In case the Mouldable Paste CZ layer thickness exceeds 20mm, it is recommended to apply a reinforcement interlayer web for stabilization.		



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