

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

Color	Green
Density	1,4 - 1,6g/cm ³ (NEN 1833)
Elongation	> 100% (ASTM D 1000)
Moisture absorption	< 0,03% (ASTM D 570)
Permeability	> 0,2 g/m ² /day (ASTM E 96)
Temperature Ranges	Operation temp.: <ul style="list-style-type: none"> • -45°C - +50°C Application temp. substrate: <ul style="list-style-type: none"> • between -30°C and +50°C Application temp. STOPAQ® CZ Paste: <ul style="list-style-type: none"> • Between +5 to +50°C
Specific Electrical Resistance	Rs > 10 ^E +8 Ω/m ² (EN 12068)
Adhesion	Tested at 23°C and 70°C (EN 12068)
Salt spray resistance	Tested for 720h 5% NaCl at 85°C (ASTM B 117) No corrosion detected

Product Properties_STOPAQ® CZ Paste / Geotextile + STOPAQ® Outer Wrap

Total Thickness	23mm thickness
Impact resistance	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.)
Indentation resistance	10 N/mm ² (EN 12068) at 23°C, no holidays (EN 12068) at 70°C, no holidays (< 20 min.)

General Order information

Product:	STOPAQ® CZ Paste is available in 2 kilo sheets protected by siliconized foil.
Packaging:	In Boxes: 6 per box – 288 per pallet
Handling:	Handle with care. Keep the boxes upright
Storage:	Indoor, dry and clean. No shelf-life

Application instruction_Preparation		Application instruction_Final steps	
Application equipment	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.	Visual inspection	The applied Mouldable Paste CZ must look smooth and tight and should cover all details with a thickness not less than 20mm.
High humidity	STOPAQ® CZ Paste can be applied in a humid atmosphere that does not reach the dew point.	Holiday detection	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.
Work area and substrate	The work area and substrate should be protected against negative weather influences.	Application instruction_Mechanical protection	
STOPAQ® conditions	The Mouldable Paste CZ should be dry and have an ambient temperature for the ease of shaping.	Mechanical Protection	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	
General	The areas to be coated have to be clean, dry, and free from grease and dust. All contamination has to be removed.	Handling	Areas coated with STOPAQ® should not be exposed to loads from supports or lifting equipment.
Degreasing	Degrease surfaces with isopropanol.	Immersion / backfilling	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.
Salts and Bacteria	No need for additional cleaning.	STOPAQ® Information and Warranty	
Condensation - water	Prior to - and during the application, the substrate(s) must be at least 3°C above the dew point.	Documentation	Extensive information is available on our web-site. Detailed application instructions, "STOPAQ® Technical Standard" can be acquired from our head office or local distributor; info@stopaq.com
Steel	Surface preparation minimal St 2/3 according to ISO 8501-3.	Certified staff	The application of STOPAQ® coating Systems should always be carried out by certified personnel.
Bitumen	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.	Long term guarantee	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.
Other substrates	De-gloss and de-grease the surface by using an abrasive pad and isopropanol.		
Final control	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			
Border zones	Apply wraps of 100mm wide STOPAQ® Wrappingband CZ in the border areas outside the planned Mouldable Paste CZ area.		
Area covering and shaping	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.		
Re-inforcing	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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