

STOPAQ® CZH PASTE

Product Information

Generic type: Non cross-linked, non-crystalline, special reinforced viscous polymer compound with cold flow-, self healing-, adhesive- and viscous-elastic properties. STOPAQ® CZH 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 an extremely low gas- and water vapor permeability.

Product description: STOPAQ® CZH Paste is always viscous at the temperatures of use: -45°C up to +70°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® CZH Paste can be improved by covering it with a protective layer of non-woven PP (Geotextile), prior to mechanical protection with STOPAQ® Outerwrap, Outerglass Shield, High Impact Shield or Polyester.

Features:

- Cold flow providing permanent inflow into the finest pores of the substrate
- Temperature resistance up to +70°C.
- Conforms to any shape
- Adherence created by Van der Waal's forces
- 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
- Chemically stable
- Inert and fully amorphous

Benefits:

- Harmless to environment and workers
- Easy to mould
- Can be modelled onto all irregular shaped objects
- No osmosis or under creep possible
- No cathodic disbondment
- CP function is not affected
- Guaranteed performance

Application examples

Flange protection: For external corrosion protection and moulding of buried, immersed 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® CZH Paste

Colour	Green
Density	1,4 - 1,6g/cm ³ (NEN 1833)
Elongation	>100% (ASTM D 1000)
Moisture absorption	<0,03% (ASTM D 570)
Permeability	>0,2g/m ² /day (ASTM E 96)
Temperature Ranges	Operation temp.: <ul style="list-style-type: none"> • -45°C - +70°C Short term Max: <ul style="list-style-type: none"> • +85°C Application temp. substrate: <ul style="list-style-type: none"> • between -30°C and +70°C Application temp. STOPAQ® CZH Paste: <ul style="list-style-type: none"> • +5°C to +70°C
Specific Electrical Resistance	Rs > 10E+8 Ωxm 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® CZH Paste / Geotextile + STOPAQ® Outerwrap

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	10N/mm ² (EN 12068) at 23°C, no holidays (EN 12068) at 70°C, no holidays (<120 min.)

General order information

Product	STOPAQ® CZH Paste is available in sheets protected by siliconized foil.
Packaging	In boxes. 6 sheets per box – 288 per pallet.
Handling	Handle with care. Keep the boxes upright.
Storage	Indoor, clean and dry. 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 CZH Paste must look smooth and tight and should cover all details with a thickness not less than 20mm.
High humidity	STOPAQ® CZH 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 - 25 kV). Test with minimum 15 kV. 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 CZH Paste should be dry and have a temperature, (min. +35°C) 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® Outerwrap, 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 including millscale has to be removed.	Handling	Areas coated with STOPAQ® should not be exposed to loads from supports or lifting equipment.
Degreasing Salts and Bacteria	Degrease surfaces with isopropanol. No need for additional cleaning.	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.
Condensation - water	Prior to - and during the application, the substrate(s) must be at least 3°C above the dew point.	STOPAQ® Information and Warranty	
Steel	Surface preparation minimal St 2/3 according to ISO 8501-3. Roughness profile is not essential for adhesion.	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
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.	Certified staff	The application of STOPAQ® coating Systems should always be carried out by certified personnel.
Other substrates	De-gloss and de-grease the surface by using an abrasive pad and isopropanol.	Long term guarantee	STOPAQ® offers a 30 year guarantee on the properties of the STOPAQ® CZH materials as described in this document. The lifetime of the STOPAQ® CZH materials is more than twice that period.
Final control	Substrates prepared for coating, should be clean, dry and free of loose rust/coating and dust according to dust ISO 8502-3 - grade 3.	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®.
Application instruction Application			
Border zones	Apply wraps of 100mm wide STOPAQ® Wrappingband CZH in the border areas outside the planned Mouldable Paste CZH 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.		
Reinforcing	In case the Mouldable CZH Paste layer thickness exceeds 20mm, it is recommended to apply a reinforcement interlayer web for stabilization.		



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