

# STOPAQ<sup>®</sup> PASTE CZ

## **Product Information**

**Product description:** Stopaq<sup>®</sup> Paste CZ is a low temperature, coldapplied, non-crosslinked, non-crystalline, monolithic viscous polymer based moulding paste with cold flow, self-healing, and visco-elastic properties. Stopaq<sup>®</sup> Paste CZ is a corrosion preventing, non-toxic mouldable material adhering extremely well to steel and factory applied pipeline coatings like PE, PP and FBE. Stopaq<sup>®</sup> Paste CZ is viscous at the indicated operating temperatures and, due to its liquid nature, flows into all irregularities of the substrate. The compound does not cure and is unable to build up internal stress. Stopaq<sup>®</sup> Paste CZ is fully resistant to water and has a very low gas- and water vapour permeability.

Stopaq<sup>®</sup> Paste CZ requires an additional flexible mechanical protective layer like Stopaq<sup>®</sup> Outerwrap. Optionally a rigid mechanical protective layer can be applied on top like Stopaq<sup>®</sup> Polyester or Stopaq<sup>®</sup> Outerglass Shield. Stopaq<sup>®</sup> Outerwrap improves impact and indentation resistance of the coating system and supports the self-healing ability of small damages like dents and cuts.

#### **Features:**

- Controlled cold flow providing permanent inflow into the finest pores of the substrate.
- · Resistance to low temperatures without getting brittle
- Conforms to irregular shapes
- Low surface tension; adheres on many types of dry substrates at a molecular level
- Surface tolerant: no blasting techniques required, wire brushing is sufficient (ISO 8501-1: St 2)
- Adhesion based on vanderWaals forces
- Inert to ageing and weathering
- Resistant to many chemicals like water, salts, acids, alkalis, polar solvents, etc. For additional information, please consult Stopaq b.v.

#### **Benefits:**

- Environmentally friendly, no health and safety hazards to humans
- · Fast and easy to apply at low temperatures
- Easy to control application
- · Can be moulded onto various types of irregular shaped objects
- No osmosis or underfilm migration of moisture
- No cathodic disbondment
- Cathodic Protection (CP) of steel structures is not affected
- Guaranteed performance

### **Application examples**

Flanges: For protection against external corrosion and shaping of buried connection flanges, insulation flanges and blind flanges. Valves: For protection against external corrosion and shaping of buried valves.

**Irregular shaped parts:** For protection against external corrosion and shaping of buried manhole covers, bolts & nuts, etc.

**Cad-welds:** For protection against external corrosion of welded CP-wire connections on underground pipelines (Pin-brazes) and underground steel structures protected by CP.

**Pipe coating repairs:** For protection against external corrosion and as filler for buried pipeline coating defects of e.g. 3LPE coated pipelines, prior to application of consecutive mechanical protective coating.

Product properties	s Stopaq <sup>®</sup> Paste CZ		
Colour	Green		
Density	1.4 – 1.6 g/cm <sup>3</sup>		
Temperature	Operational temperatures:	- 45℃ to + 50℃	
ranges	Substrate temperature		
	during application:	- 30℃ to + 50℃	
Water absorption	< 0.03% (ASTM D570)		
Glass transition temperature	≤ - 65℃ (ISO 21809-3/A1)		
Specific electrical insulation resistance	> 10 <sup>8</sup> Ω.m² (ISO 21809-3/A1)	)	
Adhesion test	Tested @+23℃ and +50℃ (ISO 21809-3/A1) on steel (Sa 2½, St 2 and St 3) and plant coatings (PP, PE and FBE). Results on all substrates: - Cohesive failure, no evidence of adhesive failure - ≥ 99% coverage of surface - ≥ 0.6 mm residual thickness		
Thermal ageing resistance and hot water immersion	Ageing 100 days@+70℃ (ISO 21809-3/A1), dry and hot water immersion: Results of peel strength test are identical to results obtained with non-aged material.		
Salt spray resistance	Tested 720 h, 5% NaCl @ + No corrosion detected = ISO 21809-3:2008/Amendme	, , , , , , , , , , , , , , , , , , ,	

Note: ISO 21809-3/A1 = ISO 21809-3:2008/Amendment 1:2011

General order information			
		Stopaq <sup>®</sup> Paste CZ is available in sheets, packed in siliconized foil in cardboard boxes	
	<u>Art. Nr.</u>	Packing size	
	6141	Sheet 2kg, 6 pcs./box, 288 pcs./pallet	
Handling		Handle with care. Keep boxes upright	
Storage		Store in a cool, dry and clean place, away from direct sunlight and below +35°C. Unlimited shelf life.	

and auxiliaries voltage hol – Scissors, k – Abrading p	re probe, Dew point tester, High	Visual inspection Holiday detection	Ction: Quality control The appearance of Stopaq <sup>®</sup> Paste CZ must look smooth and tight and should cover all details with a thickness of at least 20 mm.
and auxiliaries voltage hol – Scissors, k – Abrading p – Isopropyl a – Heating bla – Protective	iday tester (nife, Putty knife, Measuring tape		smooth and tight and should cover all details
<ul> <li>Abrading p</li> <li>Isopropyl a</li> <li>Heating bla</li> <li>Protective</li> </ul>			with a thickness of at least 20 mm.
<ul> <li>Isopropyl a</li> <li>Heating bla</li> <li>Protective</li> </ul>		Holiday detection	Immediately after application of Stopag <sup>®</sup> Paste
<ul> <li>Heating bla</li> <li>Protective</li> </ul>	-	nonday detection	CZ, a holiday test should be carried out with a
- Protective	lcohol, cas. nr. 67-63-0		High voltage holiday tester at ≥15 kV. A brush
			probe is recommended. No further testing is
I Gladiai B	0		required.
	/pe of application, various	-	
	ials might be needed:	Application instru	ction: Mechanical protection
	rappingband CZ / CZH	Mechanical	Once applied, Stopaq <sup>®</sup> Paste CZ should be
– Stopag <sup>®</sup> O	uterwrap PVC / PE	protection	protected against impacts, indentations, soil
– Stopaq <sup>®</sup> Po	olyester		pressure and other influences by wraps of
	uterglass Shield		Stopaq <sup>®</sup> Outerwrap, eventually followed by
	CZ can be applied in a humid		Stopaq <sup>®</sup> Polyester or Stopaq <sup>®</sup> Outerglass Shield.
	e substrate should be free from		Mechanical protection should overlap the
	er which can be reached by		boundaries of applied Paste CZ.
	perature at least 3°C above dew	Distant in the	•
point.		Bringing into serv	
	urface should be dry, clean and	Exposure to loads	Objects coated with Stopag <sup>®</sup> Paste CZ should
	st negative weather influences.	-	not be exposed to loads from supports- or lifting
	J∠ should be dry and the between +25℃ and	Immersion or	equipment. Immersion or burying is possible immediately
	se of application. To achieve	burying	after completion of the coating application.
	can be heated with the heating	burying	Backfill and compact with clean sand and filling
blanket.			material without sharp stones or hard lumps of
		4	soil.
Application instruction: Surface	preparation		
	coated has to be clean, dry, and		
	free from oil, grease and dust. All contamination		on and warranty
including mill-sc	ale has to be removed.	Documentation	Extensive information is available on our web-
Degreasing Degrease surface	ces with isopropyl alcohol		site. Application instructions, "Stopaq <sup>®</sup> Technical
Salts and bacteria No need for add			Standard" and other documentation can be
	ng the application, the		obtained from our head office, from our local
	he substrate(s) must be at least	Certified staff	distributor or by email to <b>info@stopaq.com</b> The application of Stopaq <sup>®</sup> coating systems
3°C above the d Steel Minimum require	ew point. ement for surface preparation is		should always be carried out by certified
	o ISO 8501-1. Roughness profile		personnel.
is not essential		Stopag <sup>®</sup>	Extensive laboratory tests and more than 10
	bitumen. For proper adhesion,	performance	years of service in extreme wet and chemical
	the surface is clean and dry.	•••••	aggressive environments have proven that
	surface to +60°C may be		corrosion, bacterial growth or stress corrosion
	recoating of moist bitumen parts.		cracking cannot develop on substrates coated
	grease the surfaces by using an	-	with Stopaq <sup>®</sup> coating systems.
	d isopropyl alcohol.	Long term	Stopaq <sup>®</sup> offers a 30 year guarantee on the
Final control The substrates	prepared for coating, should be	guarantee	material properties of the Stopag <sup>®</sup> materials as
	ee of dust according to ISO		described in this document.
8502-3, grade 3			
			STOPAQ
Application instruction: Brief vers			JIVIAN
	Stopad <sup>®</sup> Wrappingband CZ or		
	pe sections underneath and		SEALFORLIFE
Paste CZ.	ned boundaries of Stopaq®		STODAO B V
	nouldable paste around the	-	STOPAQ B.V. Gasselterstraat 20
	Press the paste. Avoid air		9503 JB Stadskanaal
	er shaping, the surface should be		P.O. Box 285
	e proper application of additional		9500 AG Stadskanaal
materials.			The Netherlands
matchais.		1	T: +31 (0) 599 696 170
	r thickness of Stopaq <sup>®</sup> Paste CZ		
Reinforcement In case the laye exceeds 20mm,	it is recommended to apply a		F: +31 (0) 599 696 177 E: info@stopaq.com
Reinforcement In case the laye exceeds 20mm,	it is recommended to apply a terlayer web for stabilization of		F: +31 (0) 599 696 177

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