

STOPAQ® FN 4100

Product Information

Generic type: Non cross-linked, synthetic polyolefin corrosion prevention putty.

Product Discription: STOPAQ® FN 4100 is a non toxic material, suited for application on steel and adjacent factory pipeline coatings like PE, PP, FBE. It displaces water and is fully resistant to water plus has a very low gas- and water vapour permeability. It is designed for use on buried constructions as well as inside constructions with low to medium service- and ambient temperatures is used as a corrosion protective modelling compound for filling of voids and shaping of irregular surfaces, prior to application of a STOPAQ® mechanical protective coating system. The STOPAQ® FN 4100 remains plastic at the temperatures of use: -45°C up to +30°C. The compound does not cure and is unable to build-up internal stresses. STOPAQ® FN 4100- shaped objects should be mechanical protected by covering it with a protective layer of non-woven PP (geotextile) prior to application of an outer layer of STOPAQ® Outer Wrap.

Features:

- Adheres on all dry substrates
- Easy to shape
- Permanent fills the finest pores of the substrate
- Surface tolerant: no grit-blasting, only wire brushing or hand tool cleaning required
- No primer required
- Resistant to temperatures down to -50°C

Benefits:

- Harmless for environment and workers
- Fast and easy to apply
- Cost- and time saving surface preparation
- Can be modelled onto all irregular shaped objects
- No osmosis possible
- CP function is not affected by Stopaq
- Can be re-used - no waste

Application examples

Flange protection: For shaping and corrosion protection of buried flange connections, Insulation flanges and flange seals.

Valves: For external corrosion protection and shaping around buried valves.

Shaped parts: For shaping and external corrosion protection of buried man covers, bolts & nut connections.

Cat-welds: Welded wire connections on buried pipelines and other buried, cathodic protected steel constructions.

Product Properties_ FN 4100

Colour	Green
Density	1,2- 1,5g/cm ³ (NEN 1833)
Shape Retention	at 30°C: < 4mm (DIN / EN 12068)
Moisture absorption	< 0,07% (ASTM D 570)
Temperature Ranges	Operation temp.: <ul style="list-style-type: none"> • -10°C - +30°C Application temp. STOPAQ® FN 4100: <ul style="list-style-type: none"> • between +15 and +30°C
Specific Electrical Resistance	Rs > 10 ^E +8 Ω/m ² (EN 12068)
Resolved Shear Stress	> 400 Pa (EN 12068)
Effect CP	No influence (ASTM G8)
Resistance against thermal ageing	No changes in properties (ASTM D 570)
Salt spray resistance	Tested for 1000H, 5% NaCl at 35°C (ASTM B 117) No corrosion detected

General product information

Product	STOPAQ® FN 4100 is available is 0,53 kg tubes and 2 kilo saucages.
Packaging	0,53 kilo tubes – 20 per box/560 per pallet 2 kilo saucages – 9 per box/ 243 per pallet
Handling	Handle with care
Storage	Indoor, clean and dry. No shelf-life.

PRODUCT DATA SHEET | STOPAQ® FN 4100

High humidity	STOPAQ® FN 4100 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 FN 4100 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 substrate(s) must be at least 3°C above the dew point.
Steel	Surface preparation minimal St 2/3 according to ISO 8501-3.
Bitumen	Remove loose bitumen. Avoid the recoating of moisturous bitumen parts. Slightly roughen up the bitumen surface by wire brush.
Other substrates	De-gloss and de-grease the surface by using an abrasive pad and isopropanol.
Final control	The 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 a wrap of 100mm wide STOPAQ® Wrappingband CZ or CZH in the border areas outside the planned FN 4100 application area.
Area covering and shaping	Apply a thin layer of Putty on an abrading sponge and rub it into the surfaces to be protected. Continue with building up and shaping. Avoid air enclosures. The shaped surface should be smooth, suited for covering with one of the final STOPAQ® outer, mechanical protective layers.
Reinforcing	In case the Putty FN 4100 layer thickness exceeds 20mm, it is recommended to apply a reinforcement interlayer web for stabilization of the moulded putty layer.

Application instruction_Quality Control	
Visual inspection	The applied Putty FN 4100 must look smooth and tight and should cover all details with a thickness not less than 20mm.
Holiday detection	Immediately after application of the Putty FN 4100, 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.

Application instruction_Mechanical protection	
Mechanical protection	The ready shaped putty layer should be protected against impact, soil pressure and other influences by means of a layer of geotextile and a wrap of STOPAQ® Outer Wrap, or Polyester. The wrapping starting and ending on the Wrappingband CZ or CZH covered "border zone" surfaces.

Bringing into service	
Handling	Areas coated with STOPAQ® FN 4100 should not be exposed to loads from support- or lifting equipment.
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 of soil.

STOPAQ® Information	
Documentation	Extensive information is available on our web-site. Application instructions, "STOPAQ® Technical Standard" can be required from our head office and/or local distributor: info@stopaq.com
Certified staff	The application of STOPAQ® coating systems should always be carried out by certified staff.
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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