

STOPAQ® FAST BASECOAT GRE

Product Information

Product description: Stopaq® FAST Basecoat GRE is a cold-applied, non-crosslinked, non-crystalline, monolithic viscous polymer based, prefabricated wrap coating with cold flow, self-healing, visco-elastic properties. Stopaq® FAST Basecoat GRE is a corrosion preventing, non-toxic wrap material adhering extremely well to steel and pipeline coatings like PE, PP, FBE and Epoxies. Stopaq® FAST Basecoat GRE 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® FAST Basecoat GRE is fully resistant to water and has a very low gas- and water vapour permeability.

Stopaq® FAST Basecoat GRE is especially designed for application as part of Factory Applied Stopaq® (FAST) coating systems and for field joint coating of pipes with parent FAST coating systems. It requires an additional rigid but flexible mechanical protective layer like Stopaq® FAST GRE (Glass-fibre Reinforced Epoxy), or Stopaq® Outerwrap tape (various types available). This improves impact resistance, abrasion resistance and indentation resistance of the coating system and supports the self-healing ability of small damages like cracks 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)
- Constant film thickness
- 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
- 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

Factory Applied Coating: Coating application in pipe mills for protection against external corrosion of carbon steel pipelines and vessels.

Pipeline Field Joints: Field application for protection against external corrosion of buried, immersed or above ground carbon steel pipeline girth-weld joints.

Product properties of Stopaq® FAST Basecoat GRE

Colour	Green
Thickness	0.85 ± 0.05 mm
Density	1.5 ± 0.1 g/cm ³ (NEN 1833)
Temperature ranges	Operational: - 45°C to + 70°C Short term max.: + 85°C Substrate during application: - 30°C to + 70°C
Elongation	> 100 % (ASTM D1000)
Glass transition temperature	≤ - 65°C *)
Drip resistance	Tested 72h@+130°C *): No dripping of compound
Specific electrical insulation resistance	Rs ₁₀₀ > 10 ⁸ Ω.m ² *)
Adhesion test	Tested 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 – Film of corrosion protective coating material is left on the substrate
Thermal ageing resistance and hot water immersion	Ageing *) 100 days@+90°C, dry and hot water immersion: Results of adhesion test are identical to results obtained with non-aged material.

*) According to ISO 21809-3:2008/Amendment 1:2011

General order information

Product	Stopaq® FAST Basecoat GRE is available in rolls of various widths and lengths
Art. Nr.	<u>Product dimensions and contents</u>
6505	200mm x 40m; 2 pcs/box; 96 pcs/pallet Other sizes on request
Handling	Handle with care. Keep boxes upright.
Storage	Store indoor, clean and dry, away from direct sunlight in a cool place below +45°C. Unlimited shelf life.

Application instruction: Job preparation	
Tools, equipment and auxiliaries	<ul style="list-style-type: none"> – Temperature probe, Dew point tester, High voltage holiday tester – Scissors, Knife, Measuring tape – Abrading pads, Wire brushes – Isopropyl alcohol, cas. nr. 67-63-0 – Personal protective gear
Additional mechanical protective materials	<p>Stopaq® FAST Basecoat GRE is applied as part of factory- or field applied coating system. Therefore one of the following additional mechanical protective layers may be selected:</p> <ul style="list-style-type: none"> – Stopaq® FAST GRE, consisting of: <ul style="list-style-type: none"> ▪ Powercrete® FAST GRE Part A (Epoxy) ▪ Powercrete® FAST GRE Part B (Hardener) ▪ Powercrete® FAST GRE Part C (Hardener) ▪ Powercrete® FAST GRE Pigment Blue ▪ Powercrete® FAST GRE Pigment Green ▪ Stopaq® FAST GRE Fabric 550 ▪ Stopaq® FAST GRE Surface veil – Stopaq® Outerwrap tape, either being <ul style="list-style-type: none"> ▪ Stopaq® Outerwrap PVC, or ▪ Stopaq® Outerwrap PE (various types), or ▪ Stopaq® Outerwrap EPDM <p>Please consult Stopaq b.v. for appropriate specifications.</p>
High humidity	Stopaq® FAST Basecoat GRE can be applied in a humid atmosphere. The substrate should be free from condensing water which can be reached by keeping the temperature at least 3°C above dew point.
Work area and substrate	The substrate surface should be dry, clean and protected against negative weather influences.
Product conditions	Stopaq® FAST Basecoat GRE should be dry and the temperature should preferably be between +20°C and +40°C for the ease of application.

Application instruction: Surface preparation	
General	The area to be coated has to be clean, dry, and free from oil, grease and dust. All contamination including mill-scale has to be removed.
Degreasing	Degrease surfaces with isopropyl alcohol and e.g. a lint-free cloth.
Preventing condensation of water	Prior to and during the application, the temperature of the substrate(s) must be at least 3°C above the dew point.
Substrate temperature	Temperature of the substrate should preferably be between +20°C and +40°C for fast and easy application. Preheating may be required.
Steel	Minimum requirement is St 2 according to ISO 8501-1. Mill-scale shall be removed. Roughness profile is not essential for adhesion.
Other substrates	De-gloss and degrease the surfaces by using an abrasive pad and isopropyl alcohol.
Cleanliness check	Take a piece of Basecoat of ± 150 mm length, remove the release foil and fold it back for about 25 mm. Put the Basecoat onto the surface, press it firmly and leave it for 5 minutes. Pull the Basecoat from the substrate with an angle of app. 135 deg. and a speed of 100 mm/min. Cohesive fracture should occur and coverage of the surface with remaining material should be ≥ 85%. If this is less, surface preparation is insufficient.
Final control	The substrates prepared for coating, should be clean, dry and free of dust according to ISO 8502-3, grade 3.

Application instruction: Brief version	
Wrapping	Start with removal of a small part of the release liner and put the Basecoat onto the substrate. Apply Basecoat without any tension onto the substrate. Avoid air-enclosures. Mould the Basecoat tight onto the substrate surfaces.
Release liner	Do not remove the release liner before application of the Basecoat. Remove just prior to application of the Basecoat to the surface.
Overlap of wraps	Side-by-side overlap: ≥ 10 mm Consecutive rolls: ≥ 50 mm Overlap on factory applied coating: consult specific Stopaq coating instructions.
Specific coating applications	See specific Stopaq coating instructions for e.g. field joints, pipe wrapping, etc.

Application instruction: Quality control	
Visual inspection	The appearance of Stopaq® FAST Basecoat GRE must look smooth and tight and should be shaped around all details and into corners.
Holiday detection	Immediately after application of Stopaq® FAST Basecoat GRE, holiday testing shall be carried out with a voltage of 10 kV. A brush probe is recommended. No further testing is required.

Handling and commissioning	
Exposure to loads	Objects coated with Stopaq® FAST Basecoat GRE should not be exposed to loads e.g. from supports- or lifting equipment.
Immersion or burying	Immersion or burying is possible after application of the mechanical protective layer has been completed. See specific datasheets for further information. Backfill and compact with clean sand and filling material without sharp stones or hard lumps of soil.

Information	
Documentation	Extensive information is available on our website. Application instructions and other documentation can be obtained by contacting our head office, from our local distributor or by sending email to info@stopaq.com
Certified staff	Application of the described coating system should be carried out by certified personnel.
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® coating systems.



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