# STOPAQ® FAST BASECOAT GRE SA

## Product Information

**Product description:** Stopaq® FAST Basecoat GRE SA is a corrosion preventing wrap material adhering very well to steel and factory applied pipeline coatings like PE, PP and FBE.

Stopaq® FAST Basecoat GRE SA is a non-toxic, cold-applied, prefabricated wrap coating, based on a compound containing non-crystalline, low-viscosity, non-crosslinked (fully amorphous), pure homopolymer Polyisobutene. Furthermore it has a thin non-woven backing layer that suits application of mechanical protective materials.

Stopaq® FAST Basecoat GRE SA is viscous at the indicated operating temperatures. Due to its liquid nature it has a set of unique properties, like cold-flow into all irregularities of the substrate, and self-healing of the complete coating system. The compound does not cure and is unable to build up internal stress. Stopaq® FAST Basecoat GRE SA is fully resistant to water, salt spray and UV-radiation, and has a low gas- and water vapour permeability.

Stopaq® FAST Basecoat GRE SA 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 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 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
- Complete coating system has self-healing properties in case of small dents, voids and cracks.
- Inert to ageing and weathering
- No osmosis or underfilm migration of moisture
- No cathodic disbondment of complete coating system
- 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
- Very well suited for machine application on new-built pipes
- Cathodic Protection (CP) of steel structures is not affected

## Application examples

**Factory Applied Coating:** Coating application in pipe mills for protection against external corrosion of buried, immersed or above ground carbon steel, alloyed steel and ductile iron pipelines structures and reservoirs.

**Pipeline Field Joints:** Field application for protection against external corrosion of buried, immersed or above ground carbon steel, alloyed steel and ductile iron pipeline girth-weld joints with parent Stopaq FAST Basecoat GRE coating.

| Product properties of Stopaq® FAST Basecoat GRE SA | |
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| **Colour** | Green |
| **Thickness** | 1.0 mm [40 mils] nominal A) |
| **Density** | 1.5 ± 0.1 g/cm³ [12.5 ± 0.8 lbs/gal] (ISO 1183-1) |
| **Temperature ranges** | Operational: -45°C [-49°F] to +70°C [+158°F]<br>Short term: +90°C [+194°F] |
| **Glass transition temp.** | ≤ - 65°C [-85°F] A) |
| **Crystallization temp.** | Temperature test range -100°C to +190°C A)<br>– No evidence of crystallization |
| **Holiday detection** | No holidays at 15 kV A) |
| **Drip resistance** | Tested 48h @ +130°C [+266°F] A)<br>– No dripping of compound |
| **Adhesion test** | Tested on steel (Sa 2½, St 2 and St 3) and plant coatings PP, PE and FBE A). Results on all substrates:<br>– Cohesive failure, no evidence of adhesive failure<br>– Film of corrosion protective coating material is left on the substrate |
| **Thermal ageing resistance and hot water immersion** | Ageing A) 100 days@+90°C, dry and hot water immersion: Results of adhesion test are identical to results obtained with non-aged material. |

A) According to ISO 21809-3:2016 (2nd ed.), coating type 13

| General order information | |
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| **Product** | Stopaq® FAST Basecoat GRE SA is available in rolls with the following dimensions: |
| Art. Nr.: | Product dimensions and contents: |
| 69953-03500 | 200mm x 35m; 2 pcs/box; 96 pcs/pallet. |
| **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

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| **Tools, equipment and auxiliaries** | – Temperature probe, Dew point tester, High voltage holiday tester<br>– Scissors, Knife, Measuring tape<br>– Abrading pads, Wire brushes<br>– SFL® Substrate Cleaner, or SFL® Cleaning Wipes, or - alternatively - Isopropyl alcohol, cas. nr. 67-63-0<br>– Personal protective gear, if applicable |
| **Additional coating materials** | Stopaq® FAST Basecoat GRE SA is applied as part of factory- or field applied coating system. Therefore one of the following additional mechanical protective layers may be selected:<br>– Stopaq® FAST GRE, consisting of:<br>▪ Powercrete® FAST GRE Part A (Epoxy)<br>▪ Powercrete® FAST GRE Part B (Hardener)<br>▪ Powercrete® FAST GRE Part C (Hardener)<br>▪ Powercrete® FAST GRE Pigment Blue<br>▪ Powercrete® FAST GRE Pigment Green<br>▪ Stopaq® FAST GRE Fabric<br>▪ Stopaq® FAST GRE Surface veil<br>– Stopaq® Outerwrap tape, like Stopaq® Outerwrap PE (various types)<br>Please consult Stopaq B.V. for appropriate specifications. |
| **High humidity** | Stopaq® FAST Basecoat GRE SA 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 [6ºF] above dew point. |
| **Work area and substrate** | The substrate should be dry, clean and protected against negative weather influences. |
| **Product conditions** | Stopaq® FAST Basecoat GRE SA should be dry and the temperature should preferably be between +20°C and +40°C for the ease of application. |

## Application instruction - Surface preparation

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| **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 SFL® Cleaning Wipes, or SFL® Substrate Cleaner (or 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 [6ºF] above the dew point. |
| **Substrate temperature** | Temperature of the substrate should preferably be between +20°C [+68ºF] and +40°C [+104ºF] 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** | Degloss and degrease the surfaces with SFL® Cleaning Wipes, or SFL® Substrate Cleaner (or isopropyl alcohol) and an abrasive pad. |
| **Cleanliness check** | Take a piece of Basecoat of ± 150 mm [6"] length, remove the release liner and fold it back for about 25 mm [1"]. 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 approx. 135 deg. and a speed of approx.100 mm/min [4"/min]. Cohesive separation mode should occur and coverage of the surface with remaining material should be ≥ 95%. If this is less, surface cleaning is insufficient or temperature is too low. |

## Application instruction – Brief version

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| **General** | Specific instructions are available for various applications of Stopaq® FAST Basecoat GRE SA. Please contact Stopaq B.V. for further information. |
| **Substrate unevenness** | Excessive substrate unevenness – e.g. longitudinal and spiral pipe welds, and protruding parts – should be levelled using appropriate Stopaq materials prior to wrapping. These anomalies could otherwise cause incomplete coverage of the substrate, and leave possible risk of tenting. |
| **Wrapping** | Start with removal of a small part of the release liner and apply the Basecoat on the substrate. Apply Basecoat preferably without tension; in case of machine application slight tension might be used. Avoid air-enclosures. Mould the Basecoat onto the substrate using slight pressure. |
| **Release liner** | Do not remove the release liner before application of the Basecoat. Remove just prior to application of the Basecoat to the substrate. |
| **Overlap of wraps** | Side-by-side overlap: ≥ 10 mm [3/8"]<br>Consecutive rolls: ≥ 50 mm [2"]<br>Overlap on factory applied coating: See specific Stopaq coating instructions. |
| **Visual inspection** | The appearance of Stopaq® Basecoat FAST GRE SA must look smooth and tight, and should be shaped around all details and into corners. |
| **Holiday detection** | After application of Stopaq® Basecoat FAST GRE SA, and prior to application of mechanical protective materials, a holiday test should be carried out at a voltage of 10 kV. A brush probe is recommended. No further testing is required. |
| **Mechanical protective materials** | Once applied, Stopaq® FAST Basecoat GRE SA should be protected against impacts, indentations, soil pressure and other influences by application of Stopaq® FAST GRE epoxy coating system, or suitable Stopaq® Outerwrap tape. |

## Handling and commissioning

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| **Exposure to loads** | Objects coated with Stopaq® FAST Basecoat GRE SA should not be exposed to loads e.g. from supports- or lifting equipment. |
| **Immersion or burying** | Immersion or burying is possible after application of complete coating system is finished, and – if applicable - the GRE epoxy coating system is fully cured. Consult data sheets for specific instructions of additional materials used. Backfill and compact with clean sand and filling material without sharp stones or hard lumps of soil. |

## Information

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| **Documentation** | Extensive information is available on our web-site. 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. |

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