

## STOPAQ® 4200 FILLER

### Product Information

**Product description:** Stopaq® 4200 Filler is a non-toxic, highly viscous, single component, non-reactive injection filler with corrosion preventing properties. It has a wide service temperature range, excellent adhesion to many types of substrates and penetrates deeply into surface irregularities.

The non-curing, surface tolerant Stopaq® 4200 Filler is designed for filling and protecting hard-to-clean corrosion sensitive areas where water can accumulate. It can be applied in narrow spaces that are difficult to access like gaps between flanges, around bolt threads in bolt holes, tank chime areas and around flange seals.

The material is suited for application with a hand operated, electric or pneumatic injection tool, equipped with a flexible nozzle. It does not cure and is unable to build-up internal stresses. Due to the permanent liquid properties at indicated operational temperatures, Stopaq® 4200 Filler will tend to flow out of the filled voids. Therefore they should be covered with additional Stopaq® materials like Stopaq® Wrappingband and Outerwrap materials. Depending on type of application, additional mechanical protection can be installed like Stopaq® Flangebelt, Stopaq® Outerglass Shield XT Grey, or Stopaq® Polyester.

#### Features:

- Adheres on many types of dry substrates
- Compatible with various types of coatings like PE, PP, and FBE
- Surface tolerant
- Fills the finest pores of the substrate
- Safe to use. No physical, health or environmental hazards

#### Benefits:

- Permanent sealing of hard-to-access spaces
- Only minor surface preparation required
- No primer required
- Fast and easy to apply by injection tool

### Application examples

**Flanges:** For protection against external corrosion of internal flange faces, bolt and bolt holes, and gaskets.

**Storage tanks – Chime area:** Protection of steel surfaces in gaps between the tank skirts and the concrete foundations.

**Bolt connections:** For protection of bolt threads and shafts in bolt holes (in steel as well as concrete constructions).

### Product properties of Stopaq® 4200 Filler

<b>Colour</b>	Green
<b>Density</b>	1,2 – 1,5 g / cm <sup>3</sup> [10.0 – 12.5 lb/gal] (ISO 1183-1)
<b>Temperature range</b>	Operational: -45 to +100 °C [-49 to +212 °F]
<b>Water absorption</b>	≤ 0,1% (ASTM D570 modified)
<b>Adhesion</b>	Adhesion test on steel, PP, PE and FBE: – Cohesive separation mode, no signs of adhesive failure.
<b>Salt spray resistance</b>	Tested 720 h, 5% NaCl @ +85 °C [+185 °F] (ASTM B117): – No corrosion detected

### General order information

<b>Product</b>	Stopaq® 4200 Filler is available in various packing sizes:
<b>Art. Nr.:</b>	<b>Product dimensions and contents:</b>
4210	Cartridge 0,53 kg [18.7 oz], 20 pcs/box, 720 pcs/pallet
4225	Tubular bag 2 kg [4.4 lbs], 9 pcs/box, 324 pcs/pallet
<b>Handling</b>	Handle with care. Keep boxes upright.
<b>Storage</b>	Store indoor, clean and dry. Storage temperature is not critical. Unlimited shelf life.

Application instruction - Job preparation		Application instruction – Brief version	
<b>Tools, equipment and auxiliaries</b>	<ul style="list-style-type: none"> <li>– Temperature probe, Dew point tester</li> <li>– Injection tool with flexible nozzle</li> <li>– Scissors, Knife, Putty knife, Measuring tape</li> <li>– Abrasive cleaning pads, Wire brushes, Tube brush, Masking tape</li> <li>– SFL Cleaning Wipes, SFL Substrate Cleaner, or Isopropyl alcohol, cas. nr. 67-63-0</li> <li>– Personal protective gear</li> </ul>	Detailed application instructions are available from Seal For Life Industries.	
<b>Additional coating materials</b>	Depending on type of application, various additional mechanical protective materials might be needed: <ul style="list-style-type: none"> <li>– Stopaq® Wrappingband (various types available)</li> <li>– Stopaq® Outerwrap (various types available)</li> </ul> Optional additional mechanical protection: <ul style="list-style-type: none"> <li>– Stopaq® Outerglass Shield XT Grey or Stopaq® Polyester</li> </ul>	<b>Preparing injection tool</b>	Insert a cartridge or tubular bag of Stopaq® 4200 Filler into the injection tool prior to application. Apply the flexible nozzle at the opening of the cartridge.
<b>High humidity</b>	Stopaq® 4200 Filler can be applied in a humid atmosphere. The substrate must be free from condensing water which can be reached by keeping the temperature at least 3 °C [6 °F] above dew point.	<b>Injection</b>	Shape the flexible nozzle in order to fit it into the gap to be filled. Push the nozzle as deep as possible into the gap and start injection of the Stopaq® 4200 Filler. Avoid air enclosures by keeping the tip of the nozzle in contact with already injected Stopaq® 4200 Filler. Gently pull out the nozzle while injecting. When the Stopaq® 4200 Filler becomes visible at the boundaries of the opening, the gap is filled completely.
<b>Work area and substrate</b>	The substrate must be dry, clean and protected against negative weather influences.	<b>Levelling and smoothening</b>	Use the putty knife for smoothening the surface and removal of excess filler. If applicable, remove the masking tape afterwards.
<b>Product conditions</b>	Stopaq® 4200 Filler must be dry and the temperature should preferably be between +20 °C and +40 °C [68 to 104 °F] for the ease of application.	<b>Application of covering materials</b>	Dimensions of covering materials should be sufficient to cover at least 50 mm [2"] of the adjacent substrate on all sides of the filled gap. See specific application instructions for further details.
		<b>Visual inspection</b>	The Stopaq® 4200 Filler and the covering materials must look smooth and tight and should be shaped around all details and into corners.

Application instruction - Surface preparation		Handling and commissioning	
<b>General</b>	The area to be coated must be clean, dry, and free from oil, grease, dust, poorly adhering old coating and loose particles. All contamination including mill-scale must be removed. Several methods are suitable for cleaning purposes e.g. by scraping, wire brushing, high-pressure water jetting, vacuum cleaning, compressed air, etc.	<b>Exposure to loads</b>	Objects filled with Stopaq® 4200 Filler should not be exposed to loads e.g. from supports- or lifting equipment.
<b>Degreasing</b>	Degrease surfaces with SFL Cleaning Wipes, SFL Substrate Cleaner, or Isopropyl alcohol and e.g. a lint-free cloth.	<b>Commissioning</b>	Areas filled with Stopaq® 4200 Filler can be commissioned immediately after installation of additional materials is completed.
<b>Preventing condensation of water</b>	Prior to and during the application, the temperature of the substrate(s) must be at least 3 °C [6 °F] above the dew point.	<b>Information</b>	
<b>Substrate temperature</b>	Temperature of the substrate should preferably be between +20 °C and +40 °C [68 to 104 °F] for fast and easy application. Preheating may be required.	<b>Documentation</b>	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 <a href="mailto:info@sealforlife.com">info@sealforlife.com</a>
<b>Steel substrates</b>	Clean the surfaces thoroughly by scraping, brushing, vacuum cleaning, etc. and remove loose particles (e.g. corrosion products).	<b>Certified staff</b>	Application of the described materials should be carried out by certified personnel.
<b>Masking</b>	In order to keep surrounding surfaces clean e.g. for application of additional Stopaq® materials, it is recommended to apply masking tape on these surfaces prior to application of Stopaq® 4200 Filler.		
<b>Visual inspection</b>	The surfaces must be clean, dry and free of dust prior to application.		