

**TECHNICAL DATA SHEET**

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|                                   | <b>Revision:</b> 004             |
|                                   | <b>Date:</b> 01/08/2001          |
|                                   | <b>Replaces:</b> 15/06/2001      |
|                                   | <b>Printing date:</b> 19/12/2007 |

**1. Identification of the product**

**1.1 Commercial product name:** STOPAQ<sup>®</sup> FN 4200

**2. Technical Data**

STOPAQ<sup>®</sup> FN 4200 is a corrosion preventative compound which is applied for the protection of over ground flanges. It protects the space between the flange plates against the ingress of moisture and penetrates the pores of the steel. Once applied the product stays flexible forever and shows no degradation after many years of service.

STOPAQ<sup>®</sup> FN 4200 is suitable for coating above ground flange plates having thermal deformations and gives applicators an opportunity to coat uneven, non-cleaned or hard to access surfaces. When applied STOPAQ<sup>®</sup> FN 4200 does not flow from vertical and inclined surfaces.

The application of STOPAQ<sup>®</sup> FN 4200 is very easy to a dry base in all weather conditions, without priming or preheating. STOPAQ<sup>®</sup> FN 4200 is applied in combination with STOPAQ<sup>®</sup> WRAPPINGBAND CZ (H).

STOPAQ<sup>®</sup> FN 4200 has excellent resistance to weathering and aging and will protect the internal of the flange (and therefore the nuts and bolts) over a long period of time to provide a largely maintenance free protection system for over ground flanges.

STOPAQ<sup>®</sup> FN 4200 is a one-component synthetic polymer system.  
No shelf life  
No additional safety measures necessary  
No special requirements for transportation  
Non toxic, inert and no harmful influence to environment

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**2.1 Properties**

| <b>PROPERTY</b>   | <b>VALUE</b>  | <b>TESTPROCEDURE</b>                       |
|---|---|--|
| <b>Temperature range when applied</b>                         | -30 °C - +100 °C  |  |
| <b>Temperature range for use</b>                              | -60 °C - +130 °C  |  |
| <b>Density</b>  | 1.49 g/cm <sup>3</sup>  | GOST 12801-67                              |
| <b>PH-value</b>   | Neutral   |  |
| <b>Flashpoint</b>   | Min. +190 °C  |  |
| <b>Water impermeability</b>                                   | None  | GOST 11501-78                              |
| <b>Cathodic Disbonding (damage hole 6.4 mm (1/4 sq.inch))</b> | 6.35 mm ( 25 °C)<br>9.90 mm (50 °C)                               | ASTM G 95, ASTM G8, EN 12068               |
| <b>Penetration (100 °C / 30 days)</b>                         | 36 mm   | GOST 11501-78                              |
| <b>Consistency</b>  | 1.0 mm (23 °C)  | TU 400-2-51-70 3.5                         |
| <b>Specific Electric Insulation Resistance</b>                | > 10 <sup>12</sup> ohm.cm   | AKH method                                 |
| <b>Adhesion</b>   | 0.5 N/mm <sup>2</sup> (23 °C)                                     | GOST 25812-83<br>EN12068                   |
| <b>Shear Strength</b>   | 0.20 N/mm <sup>2</sup> (23 °C)<br>0.32 N/mm <sup>2</sup> (100 °C) | AKH method                                 |
| <b>Salt Spray Test (1000 hr, 5%NaCl)</b>                      | No corrosion  | AKH Method<br>ASTM B 117                   |
| <b>Irradiation by UV</b>                                      | No changes  | 17.5 GJ Government University of Groningen |
| <b>Vitrification Temperature</b>                              | < -65 °C  |  |

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**3. Application Procedure**

Before applying STOPAQ® FN 4200 the internal of the flange has to be cleaned thoroughly to make sure there are no loose parts left inside and we have to make sure it is dry. Although STOPAQ® FN 4200 can encapsulate irregularities, it is not recommended to leave these behind.

As soon as the flange is thoroughly cleaned, it is recommended to apply a masking tape on both the edges of the flanges. Later on this tape is removed together with the excess of STOPAQ® FN 4200. The tape enables us to work clean.

Once the tape is applied, the STOPAQ® FN 4200 can be injected by a caulking gun. The flexible mouthpiece can be squeezed in between the plates.

The caulking gun is pushed in at an angle, so you fill the section behind the one the gun is in. Move round the flange doing the same to each section. When the STOPAQ® FN 4200 becomes visible at both sides of the mouth piece, you know the surface is completely filled.

When the entire flange is injected with the STOPAQ® FN 4200, the material is smoothed on the flange plates by a putty knife. The contaminated masking tape is removed and treated as normal waste.

The injected flange is sealed off by a single layer of STOPAQ® WRAPPING BAND CZ (H). This makes sure the STOPAQ® FN 4200 stays inside the flange and does not come out of it because of any visco-elastic behaviour when ambient temperatures increase.

The STOPAQ® WRAPPING BAND CZ is wrapped without tension and smoothed down firmly by hand to make sure it is sticking everywhere on the flange plates.

For additional mechanical protection STOPAQ EUROPE can supply various protective outerwraps. STOPAQ® PVC Outerwrap Tape, a superior grade UV resistant heavy duty gauge puncture resistance plasticised PVC pipe wrapping tape and STOPAQ® FIBER CZ, a glass-fibre reinforced plastic lining material. which hardens under the influence of UV.

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