STOPAQ® WRAPPINGBAND SZ

Product Information

Product description: STOPAQ® Wrappingband SZ is a corrosion preventing wrap material, adhering extremely well to wet surfaces such as immersed bare and coated steel. It is based on a compound containing non-crystalline, low-viscosity, non-crosslinked, (fully amorphous) pure homopolymer Polyisobutene. STOPAQ® Wrappingband SZ 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® Wrappingband SZ is applied as elementary part of STOPAQ® Splash Zone Coating System and requires additional mechanical protective layers like STOPAQ® Intermediate Wrap PVC and STOPAQ® Outerglass Shield XT Grey. This improves impact and indention resistance of the coating system and ensures adequate performance of the corrosion preventing properties.

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 and wet 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

Benefits:
- Safe to use. No physical, health or environmental hazards
- Fast and easy to apply
- Easy to control application
- Can be moulded onto various types of irregular shaped objects

Product properties of STOPAQ® Wrappingband SZ

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Colour</td>
<td>Dark green</td>
</tr>
<tr>
<td>Thickness (mm)</td>
<td>3.5 [140 mils] ± 10%</td>
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<tr>
<td>Density (g/cm²)</td>
<td>1.3 – 1.4</td>
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<tr>
<td>Temperature ranges</td>
<td>Operational: -20°C to +50°C; Short term max.: +70°C [+158°F]</td>
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<tr>
<td>Drip resistance</td>
<td>Tested 48h @ +85°C [+185°F]</td>
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<tr>
<td>Adhesion</td>
<td>Peel tests on carbon steel St 2 cleanliness (ISO 8501-1): Dry (no detectable salt residues)</td>
</tr>
<tr>
<td>Lap shear resistance</td>
<td>Tested on steel St 2 cleanliness (ISO 8501-1)</td>
</tr>
<tr>
<td>Construction</td>
<td>1. STOPAQ® Wrappingband SZ: 2 layers.</td>
</tr>
<tr>
<td></td>
<td>2. STOPAQ® Intermediate Wrap PVC: 2 layers.</td>
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<tr>
<td></td>
<td>3. STOPAQ® Outerglass Shield XT Grey: 3 layers.</td>
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<tr>
<td>Total thickness</td>
<td>approx. 8 mm (+ 1/16&quot;)</td>
</tr>
<tr>
<td>Impact resistance</td>
<td>Tested @ +23°C (+73°F), ± 1 psi (± 6.9 kPa)</td>
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<tr>
<td>Indentation resistance</td>
<td>Tested at indentation pressure of 10 N/mm² [1450 psi]; @ +23°C (+73°F) and @ +50°C (+122°F)</td>
</tr>
<tr>
<td>Specific electrical insulation resistance</td>
<td>Rs ≥ 10⁵ Ω.m² [≥ 10⁹ Ω.m²]</td>
</tr>
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</table>

Application examples

Offshore and submerged structures: For protection against external corrosion of steel jetty-pile structures situated in the splash zone.

Immersed pipelines: For protection against external corrosion of immersed carbon steel pipelines.

Underwater pipe coating repair: For pipe coating repair, coating rehabilitation, and protection against external corrosion of immersed pipeline coating defects.

Properties of STOPAQ® Splash Zone Coating System

Construction
1. STOPAQ® Wrappingband SZ: 2 layers.
2. STOPAQ® Intermediate Wrap PVC: 2 layers.
3. STOPAQ® Outerglass Shield XT Grey: 3 layers.
Total thickness: approx. 8 mm (+ 1/16")
Impact resistance: Tested @ +23°C (+73°F), ± 1 psi (± 6.9 kPa)
Indentation resistance: Tested at indentation pressure of 10 N/mm² [1450 psi]; @ +23°C (+73°F) and @ +50°C (+122°F)
Specific electrical insulation resistance: Rs ≥ 10⁵ Ω.m² [≥ 10⁹ Ω.m²]

General order information

Product: STOPAQ® Wrappingband SZ is available in rolls with following dimensions (W x L):

<table>
<thead>
<tr>
<th>Art. Nr.</th>
<th>4401</th>
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<tbody>
<tr>
<td>100mm x 6m [4' x 19'7&quot;]</td>
<td>6 pcs/box</td>
</tr>
</tbody>
</table>
Handling: Handle with care. Keep boxes upright.

Storage: Store indoor, clean and dry, away from direct sunlight in a cool place below +45°C [113°F]. Unlimited shelf life.

In accordance with ISO 21809:3:2016
## Application instruction - Job preparation

### General
- Underwater application of Stopaq® Wrappingband SZ and additional Stopaq® materials should only be carried out by professional divers certified for application of Stopaq® products.

### Tools, equipment and auxiliaries
- Surface preparation tools like water jetting equipment or power tooled wire brushes
- Scissors, Knife, Measuring tape, Perforation roller
- Personal protective gear and diving gear

### Additional coating materials
- Additional materials are required as described in the specific coating instructions. For example, the following Stopaq® materials are needed for completing the installation of the Stopaq® Splash Zone Coating System:
  - Stopaq® Intermediate Wrap PVC
  - Stopaq® Outerglass Shield XT Grey
  - Stopaq® Compression Foil
- Depending on the type of application, the use of other materials may be required.

### Application conditions
- The water and substrate temperature during application should be >+5°C [+41°F].

## Application instruction - Brief version

### Wrapping
- Start with removal of a small part of the transparent release liner and apply the Stopaq® Wrappingband SZ onto the substrate. Apply the Wrappingband by moulding it to the substrate and minimize air- or water entrapment underneath the Wrappingband. Avoid strong pulling force on the roll of material and the Wrappingband.

### Release liner
- Do not remove the transparent release liner completely before application of the Stopaq® Wrappingband SZ. Remove just prior to application onto the substrate.

### Overlap of wraps
- Side-by-side overlap: 50%
- Consecutive rolls: ≥ 100 mm [4”]

### Visual inspection
- The appearance of Stopaq® Wrappingband SZ should look smooth and tight, and should cover all details with at least two layers of Wrappingband.

### Mechanical protection
- Stopaq® Wrappingband SZ must be protected against impacts, indentations, water pressure and other influences within the shortest period of time possible after finishing application. This is obtained by subsequent application of additional coating materials as per the specific application instruction, e.g., by application of Stopaq® Intermediate Wrap PVC and Stopaq® Outerglass Shield XT.

## Handling and commissioning

### Exposure to loads
- Objects coated with Stopaq® Wrappingband SZ should not be exposed to loads e.g. from supports- or lifting equipment.

### Commissioning
- Commissioning is possible immediately after completion of the coating application. Consult data sheets for specific instructions of additional materials used.

## Information

### 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.