**Product Information**

**Product description:** Stopaq® Wrappingband SZ is a corrosion preventing wrap material, adhering extremely well to wet surfaces such as immersed bare- or coated steel. It is a non-crosslinked, non-crystalline, monolithic viscous polymer based, prefabricated wrap coating with cold flow, self-healing, visco-elastic properties. 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 the Stopaq® Splash Zone Coating System and requires additional mechanical protective layers like Stopaq® Subsea Intermediate Wrap and Stopaq® Outerglass Shield. This improves impact and indentation 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 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:**
- 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

**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.

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### Product properties of Stopaq® Wrappingband SZ

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Colour</strong></td>
<td>Dark green</td>
</tr>
<tr>
<td><strong>Thickness</strong></td>
<td>3.5 mm</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>1.3 – 1.4 g/cm³ [10.8 – 11.7 lb/gal] (NEN 1833)</td>
</tr>
<tr>
<td><strong>Temperature ranges</strong></td>
<td>Operational: -20 to +50°C [+4°F to +122°F]</td>
</tr>
<tr>
<td></td>
<td>Substrate during application: +5 to +40°C [+41°F to +104°F] (immersed)</td>
</tr>
<tr>
<td><strong>Drip resistance</strong></td>
<td>Tested 48h@+85°C [+185°F]: No dripping of compound</td>
</tr>
<tr>
<td><strong>Peel strength test</strong></td>
<td>Tested on steel (dry, wetted with fresh water, and wetted with 3% NaCl), St 2 / St 3 prepared surface @ +23°C [+73°F] and @ +50°C [+122°F]:  - Cohesive failure  - ≥ 95% coverage of surface</td>
</tr>
<tr>
<td><strong>Lap shear test</strong></td>
<td>Tested on steel (dry, wetted with fresh water, and wetted with 3% NaCl), St 2 / St 3 prepared surface @ +23°C [+73°F] and @ +50°C [+122°F]:  - Cohesive failure  - ≥ 95% coverage of surface</td>
</tr>
</tbody>
</table>

### Properties of Stopaq® Splash Zone Coating System

<table>
<thead>
<tr>
<th>Construction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Stopaq® Wrappingband SZ: 2 layers.</td>
</tr>
<tr>
<td>2</td>
<td>Stopaq® Subsea Intermediate Wrap: 2 layers.</td>
</tr>
<tr>
<td>3</td>
<td>Stopaq® Outerglass Shield XT24: 3 layers.</td>
</tr>
<tr>
<td><strong>Total thickness</strong></td>
<td>± 9 mm [± 3/8 inch]</td>
</tr>
</tbody>
</table>

**Impact resistance** Tested @+23°C [+73°F]: > 15 J [> 132 in.lbf]  

**Specific electrical insulation resistance** $R_{500} > 10^7 Ω.m² (> 10^7 Ω.ft²) ^{*)}$

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

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### General order information

<table>
<thead>
<tr>
<th>Product</th>
<th>Stopaq® Wrappingband SZ is available in rolls with following dimensions (W x L): Art. Nr.: 4401 100mm x 6m [4&quot; x 19.7’], 6 pcs/box</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Handling</strong></td>
<td>Handle with care. Keep boxes upright.</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store indoor, clean and dry, away from direct sunlight in a cool place below +45°C. Unlimited shelf life.</td>
</tr>
</tbody>
</table>
## 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: Water jetting equipment – e.g. Cavidyne® Caviblaster – and power toolied wire brushes - preferably Mont® Subsea Bristle Blaster.
- Scissors, Knife, Measuring tape
- Personal protective and diving gear

### Additional coating materials
- Additional materials are required as described in the specific coating instruction. For example, the following Stopaq® materials are needed for completing the installation of the Stopaq® Splash Zone Coating System:
  - Stopaq® Subsea Intermediate Wrap
  - Stopaq® Outerglass Shield XT or XT24, White or Grey version
  - Stopaq® Compression Foil

- Depending on the type of application, the use of other materials different from those listed above may be required.

### Working conditions
- The water temperature during application should be > +5°C (+41°F)

### Application instruction - Brief version

#### Specific coating instructions
- See specific Stopaq® coating instructions for further details, e.g. for Stopaq® Splash Zone Coating System

#### Wrapping
- Start with removal of a small part of the transparent release liner and apply the Stopaq® Wrappingband SZ onto the substrate. Apply Stopaq® Wrappingband SZ 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/or the Stopaq® Wrappingband SZ.

#### Transparent release liner
- Do not remove the transparent release liner completely before application of the Wrappingband. Remove just prior to application of the Wrappingband to the surface.

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

### Application instruction – Next steps

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

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

#### 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. Stopaq® Subsea Intermediate Wrap and Stopaq® Outerglass Shield XT or XT24.

### 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.