

## STOPAQ® OUTERWRAP HTPP

### Product Information

**Generic type:** Extremely flexible mechanical protection tape with a backing of polypropylene blend, coated with a pressure sensitive adhesive.

**Product description:** STOPAQ® Outerwrap HTPP is used for mechanical protection of corrosion protective systems, such as STOPAQ® Wrappingband CZH(T). STOPAQ® Outerwrap HTPP has high puncture and ageing resistance. It is well suited for under ground and submerged applications. The heavy-duty adhesive layer provides high adhesion strength to the outer surface of STOPAQ® Wrappingband CZH(T) as well as its own backing. STOPAQ® Outerwrap HTPP has a very good resistance to impacts and abrasion.

#### Features:

- Easy to apply manually
- Cold applicable
- Excellent shapeability
- Perfect adhesion to STOPAQ® Wrappingband as well as to its own backing
- Excellent impact resistance
- Temperature range up to +90°C

#### Benefits:

- Extremely well suited for manual application
- Easy to stretch and to apply for mechanical protection of STOPAQ® Wrappingband on irregular shapes, such as valves, flanges, bends and tee's
- Resists impacts and indentations which may occur during installation and backfilling
- Very high resistance to ageing - even when exposed to max or min temperature for longer periods of time

### Application examples

#### Mechanical protection:

**Piping & Vessels:** STOPAQ® corrosion protected carbon steel pipelines (underground, immersed), structures and reservoirs.

**Field Joints:** STOPAQ® corrosion protected field-weld joints of pipelines, on-shore.

### Product properties STOPAQ® Outerwrap HTPP

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| <b>Colour</b>            | Black  |
| <b>Thickness</b>         | 1.0 mm   |
| <b>Temperature range</b> | Application: -35°C - +70°C<br>Service: -35°C - +90°C |
| <b>Adhesive strength</b> | 3 N / mm @23°C (layer to layer)<br>(EN 12068)        |
| <b>Tensile strength</b>  | 70 N / 10mm width (EN 12068)                         |
| <b>Elongation</b>        | 400% (EN 12068)                                      |

### Product properties STOPAQ® coating system comprising Wrappingband CZH and Outerwrap HTPP

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| <b>Construction</b>           | 1 ply of Wrappingband CZH<br>2 plies of Outerwrap HTPP (50% overlap) |
| <b>Thickness</b>              | 3.8 - 4.2 mm (50% overlap)   |
| <b>Impact resistance</b>      | Tested at 15 J (EN 12068) at +23°C: no holidays                      |
| <b>Indentation resistance</b> | 10N/mm <sup>2</sup> (EN 12068) at +23°C: no holidays                 |
| <b>Self healing ability</b>   | Defect Ø 6mm at +23°C: < 1 day                                       |

### General order information

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| <b>Product Dimensions</b> | STOPAQ® Outerwrap HTPP is available in rolls with dimensions width x length:<br>Art. Nr. 1250: 4 in. x 100 ft. |
| <b>Packaging</b>          | Coiled on cardboard cores. Packed in cardboard boxes.  |
| <b>Handling</b>           | Handle with care.<br>Keep boxes upright.   |
| <b>Storage</b>            | Indoor, dry and clean.<br>Storage temperature < +40°C.   |

**PRODUCT DATA SHEET STOPAQ® OUTERWRAP HTPP**

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| <b>Application instruction: Preparation</b> |   |
| <b>Application equipment</b>                | Scissors, knife and measuring tape.   |
| <b>High humidity</b>                        | STOPAQ® Outerwrap HTPP can be applied in a humid atmosphere. Ensure that no condensed water is present on the substrate to be coated. If necessary the substrate should be heated to a temperature above dew point to prevent condensation. |
| <b>Work area and substrate</b>              | The work area and application surface should be dry and clean and protected against negative weather influences.  |
| <b>Tape conditions</b>                      | STOPAQ® Outerwrap HTPP should be dry and have a temperature of at least +10°C for the ease of handling and shaping.   |

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| <b>Application instruction: Application on Wrappingband CZH or CZH(T) – Spiral wrapping</b> |  |
| <b>General</b>  | STOPAQ® Outerwrap HTPP must be applied with tension by pulling the roll while wrapping.  |
| <b>Start of wrapping</b>  | Start wrapping STOPAQ® Outerwrap HTPP with one full circumferential straight wrap, leaving 3 mm of the STOPAQ® Wrappingband visible.   |
| <b>Continuation of spiral wrapping</b>  | After the first circumferential wrap, subsequential wraps should have at least an overlap of 50%, which can be created by slanted and spiral application of STOPAQ® Outerwrap HTPP. Be careful not to create any air enclosures and avoid tenting and bridging. Continue slanted wrapping until reaching the other end of the area to be coated, leaving 3 mm of the STOPAQ® Wrappingband visible. |
| <b>Applying subsequential rolls</b>   | When more than one roll of STOPAQ® Outerwrap HTPP is needed to continue wrapping, an overlap should be created of at least 10 cm.  |
| <b>End of wrapping</b>  | End wrapping with one full circumferential straight wrap. Apply the last 15 cm of STOPAQ® Outerwrap HTPP without tension. Cut off with a slight angle, the sharp edge pointing towards the area covered with STOPAQ® Outerwrap HTPP  |

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| <b>Post application instructions</b> |  |
| <b>Visual inspection</b>             | The applied STOPAQ® Outerwrap HTPP must look smooth and tight and should be shaped around all details and into corners   |
| <b>Bringing into service</b>         | Backfilling is possible immediately after completion of the coating application. The areas coated with STOPAQ® should not be exposed to loads from supports and lifting equipment. |
| <b>Backfilling</b>                   | Backfill and compact with clean sand and fill material without sharp stones or hard lumps of soil.   |

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| <b>STOPAQ® information and warranty</b> |   |
| <b>Documentation</b>                    | Extensive information is available on our web-site. Application instructions, "STOPAQ® Technical Standard" can be required from our head office or local distributor;<br><b>info@stopaq.com</b> |
| <b>Certified staff</b>                  | The application of STOPAQ® coating system should always be carried out by certified personnel.  |



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