

SEALTAQ[®] INSULATION BAND

Product Information

Product description: Sealtaq[®] Insulation band is a band comprising an aluminium backing and a non-crosslinked, non-crystalline, low-viscosity polyolefin based corrosion preventing compound. Sealtaq[®] Insulation band is a primerless, cold-applied, non-toxic band adhering very well to steel, RVS, prefab wall-elements and factory applied coatings like PE. The compound is viscous within the indicated operating temperatures and, due to its liquid nature, flows into the finest pores of the substrate. The compound does not cure and is unable to build up internal stress. Sealtaq[®] Insulation band is fully resistant to water and has a very low gas- and water vapour permeability.

Features:

- Controlled cold flow providing permanent inflow into the finest pores of the substrate
- Resistance to low temperatures without getting brittle
- Low surface tension; adheres on many types of dry substrates at a molecular level
- Adhesion based on vanderWaals forces
- Surface tolerant: no blasting techniques required, wire brushing is sufficient (ISO 8501-1: St 2)
- Inert to ageing and weathering
- Resistant to many chemicals like water, salts, acids, alkalis, polar solvents, etc. for additional information, please consult Seal For Life Technologies & Services B.V.

Benefits:

- Environmentally friendly, no health and safety hazards to humans
- Fast and easy to apply
- Easy to control application
- No osmosis or underfilm migration of moisture
- Guaranteed performance

Application examples

Wall-elements: Sealing of joints to make certain areas air- and watertight; where different substrates can be connected.

Construction joints: In freeze houses to make seamless joints

Pipelines: manually wrapped protective coating on steel and Insulation pipelines.

Field joints: Manually wrapped protective coating on girth-weld or bell-and-spigot joints.

Product properties Sealtaq[®] Insulation band

Colour	Aluminium backing with Ivory corrosion preventing compound
Thickness	Backing: 0,05 mm +/- 10% Total: 1,25 mm +/- 10%
Temperature ranges	Operational: -45°C up to +70°C Substrate during application: -30°C up to +70°C Short term: up to +85°C;
Water absorption	< 0.03% (ASTM D570) compound only
Peel test	Tested on steel and on plant coating PE, both at +23°C and at +70°C *): - Cohesive failure, no signs of adhesive failure - Coverage ≥ 95%

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

General order information

Product	Sealtaq [®] Insulation band is available in rolls with following dimension (W x L):
Art. Nr.:	Packing size:
...	50 mm x 10m 100 mm x 10m other sizes on request.
Handling	Handle with care. Keep boxes upright
Storage	Store indoor, clean and dry, away from direct sunlight in a cool place below +30°C. Unlimited shelf life.

PRODUCT DATA SHEET SEALTAQ® INSULATION BAND

Application instruction: Job preparation	
Tools, equipment and auxiliaries	<ul style="list-style-type: none"> - Temperature probe, Dew point tester, - Scissors, Knife, Measuring tape - Abrading pads, Wire brushes - Isopropyl alcohol, cas. Nr. 67-63-0 - Personal protective gear
High humidity	Sealtaq® Insulation band can be applied in a humid atmosphere. The substrate should be free from condensing water which can be reached by keeping the temperature at least 3°C above dew point.
Work area and substrate	The substrate should be dry, clean and protected against negative weather influences.
Product conditions	Sealtaq® Insulation band should be dry and the temperature should preferably be between +20°C and +40°C for the ease of application.

Application instruction: Surface preparation	
General	The area to be coated has to be clean, dry, and free from oil, grease and dust. All contamination including mill-scale has to be removed.
Degreasing	Degrease surfaces with isopropanol.
Salts and bacteria	No need for additional cleaning.
Condensation of water	Prior to and during the application, the temperature of the substrate(s) must be at least 3°C above the dew point.
Steel	Minimum requirement for surface preparation is ST-2 according to ISO 8501-1. Roughness profile is not essential for adhesion.
Other substrates	De-gloss and degrease the surfaces by using an abrasive pad and preferably isopropyl alcohol for proper adhesion.
Cleanliness check	Take a piece of Sealtaq® Insulation band of ± 150 mm length, remove the release foil and fold it back for about 25 mm. Put the Sealtaq® Insulation band onto the surface, press it firmly and leave it for 5 minutes. Pull the Sealtaq® Insulation band from the substrate with an angle of app. 135 deg. and a speed of 100 mm/min. Cohesive fracture should occur and coverage of the surface with remaining material should be ≥ 85%. If this is less, surface cleaning is insufficient.
Final inspection	The substrates prepared for coating, should be clean, dry and free of dust according to ISO 8502-3, grade 3.

Application instruction: Brief version pipelines
See specific Seal For Life Technologies & Services coating instructions for e.g. wrapping and coating of field joints

Application instruction: Brief version Wall-elements /Joints	
See specific Seal For Life Technologies & Services sealing instructions	
Sealing / Patching	Start with filling the voids of the joint with foam backingrod and/or Sealtaq® Paste. 90 degrees corners has to be filled up with Sealtaq® Paste. Remove a small part of the release liner and apply Sealtaq® Insulation band on the substrate without exerting any tension. Avoid air inclusions. Mould the Insulation band tight onto the substrate surfaces. For small areas and details, pre-cut the material and apply it by hand and press the material firmly to the substrate with the help of a roller.

Wrapping Start with removal of a small part of the release liner and apply Sealtaq® Insulation band on the substrate without exerting any tension. Avoid air inclusions. Mould the Insulation band tight onto the substrate surfaces.

Release foil Do not remove the release foil before application of Sealtaq® Insulation band. Remove only just prior to application onto the surface.

Overlap of patches / jointseal When the substrate is perfectly flat, the pre-cut material can be applied knocked against each other. When not, a minimum overlap of 10 mm is required. This will be visible in the finished system. By pressing the material firmly to the substrate with the help of a roller this overlap will be more smooth.

Application instruction: Quality Control

Visual inspection The appearance of Sealtaq® Insulation band must look smooth and tight and should be shaped around all details and into corners. 90 degrees corners has to be filled first with Sealtaq® Paste.

Handling and commissioning

Exposure to loads Objects coated with Sealtaq® Insulation band should not be exposed to loads e.g. from supports- or lifting equipment.

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@sealforlife.com

Certified staff Application of the described coating system should be carried out by certified personnel.



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