

## SEALTAQ® UNIVERSAL BAND

### Product Information

**Product description:** Sealtaq® Universal Band is a unique, cost-effective product intended to be used for a wide range of structural applications where airtightness, water ingress and/or corrosion is a problem. Sealtaq® Universal Band is easy to install offering excellent corrosion preventing properties. The material has a greyish polyester non-woven fibre top layer that allows for immediate painting or coating after installation. The product offers a long-term performance in e.g. commercial, residential, utilities, telecommunications, transportation, electrical, water, wastewater, agricultural, and industrial uses.

Sealtaq® Universal Band is a low temperature cold-applied, non-crosslinked, non-crystalline, monolithic viscous polymer based patch coating material with cold flow, visco-elastic properties. It is a non-toxic material adhering extremely well to ferro- and non-ferro substrates, coated substrates, difficult substrates like PE and PP, but also to dry concrete or bitumen when preparation by blasting or grinding is no option. It is fully resistant to water and has a very low gas- and water vapour permeability. Sealtaq® Universal Band 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.

For mechanical protection it's recommended to coat Sealtaq® Universal Band with a 1-component waterborne acrylics paints or solvent-free 2-component polyurethanes, polyurea and polyurethane/polyurea hybrids. Please contact Seal For Life Technologies & Services B.V. for additional information.

#### Features:

- Surface tolerant – e.g. for steel substrates blasting techniques are not required, wire brushing is sufficient (ISO 8501-1: St 2)
- Low surface tension; adheres on many types of dry substrates at a molecular level
- Resistance to low temperatures without getting brittle
- Controlled cold flow providing permanent inflow into the finest pores of the substrate
- Adhesion based on vanderWaals forces
- Resilient, sound-damping characteristics
- No osmosis or underfilm migration of water
- Inert to ageing and weathering
- Resistant to many chemicals like water, salts, and polar solvents. For additional information, please contact Seal For Life Technologies & Services B.V.

#### Benefits:

- Environmentally friendly, no health and safety hazards to humans Fast and easy to apply at low temperatures
- Easy to control during application
- Can be moulded onto various types of irregular shaped objects often in combination with Sealtaq® Paste.
- Can be used as monolithic carrier for several Seal For Life - topcoatings

### Application examples

**Surface tolerant protection:** On steel or concrete substrates when substrate preparation like blasting, grinding or etching are no option.

**Structural steel:** For protection against external corrosion and shaping of special shaped structures where corners / edges/ weldings must be protected.

**Joint sealant:** For sealing of all type of wall- joints between different types of dry substrate (concrete / wood / masonry, steel-plates,etc)

**Damage repair special steel-structures:** For protection against external corrosion of damaged coatings in situation where surface preparation is difficult.

**Waterproofing of constructions:** For waterproofing of details, pipe-connections, damaged roofs , gutters, chimneys, etc with product of 2 mm thickness (Sealtaq® Roofing Band Universal)

**Cable/pipe connection sealant:** For sealing of all type of cable- or pipe connections

### Product properties Sealtaq® Universal Band

<b>Colour</b>	Ivory
<b>Thickness</b>	1.2 ± 0.1 mm
<b>Density</b>	1.5 ± 0.1 g/cm <sup>3</sup> (ISO 1183-1)
<b>Temperature ranges</b>	Operation: -45°C up to +70°C Substrate during application: -10°C up to +50°C
<b>Water absorption</b>	Compound: < 0.03% (ASTM D570)
<b>Peel test</b>	Tested at +23°C and +70°C* at a rate of 100 mm/min on steel substrate: – Cohesive failure, no signs of adhesive failure – Residual preventing film remaining on substrate, coverage >95%
<b>Thermal ageing resistance and hot water immersion test</b>	Accelerated ageing during 100 days@+70°C in dry atmosphere and immersed in hot water: Results of peel test after ageing were not affected: cohesive failure, no signs of adhesive failure, and residual corrosion preventing film remaining on substrate.

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

### General order information

<b>Product</b>	Sealtaq® Universal Band
<b>Art. Nr.:</b>	<b>Product dimensions and contents:</b>
80060-00500	50 mm x 5 m; 24 rolls/box ; 576 rolls/pallet
80061-01000	100 mm x 10 m; 6 rolls/box ; 180 rolls/pallet
80063-01000	200 mm x 10 m; 2 rolls/box ; 96 rolls/pallet
80064-01000	300 mm x 10 m; 2 rolls/box ; 96 rolls/pallet
<b>Handling</b>	Handle with care. Keep boxes upright.
<b>Storage</b>	Store indoor, clean and dry, away from direct sunlight in a place between +18 and +30°C. Unlimited shelf life.

Application instruction: Job preparation	
<b>Tools, equipment and auxiliaries</b>	<ul style="list-style-type: none"> <li>– Temperature probe, Dew point tester, High voltage holiday tester</li> <li>– Scissors, Knife, Measuring tape; Steel seam-roller</li> <li>– Abrading pads, Wire brushes</li> <li>– Isopropyl alcohol, cas. nr. 67-63-0</li> <li>– Personal protective gear</li> </ul>
<b>Additional coating materials</b>	Depending on type of application, various additional materials are recommended for mechanical protection: <ul style="list-style-type: none"> <li>– 1-component waterborne acrylic paint</li> <li>– Seal for Life Coating systems</li> </ul>
<b>High humidity</b>	Sealtaq® Universal 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.
<b>Work area and substrate</b>	The substrate surface should be dry, clean and protected against negative weather influences.
<b>Product conditions</b>	Sealtaq® Universal Band should be dry. For the ease of application, the preferred temperature should preferably be above +5°C.

Application instruction: Surface preparation	
<b>General</b>	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.
<b>Degreasing</b>	Degrease surfaces with isopropyl alcohol and e.g. a lint-free cloth.
<b>Salts and bacteria</b>	No need for additional cleaning.
<b>Preventing condensation of water</b>	Prior to and during the application, the temperature of the substrate(s) must be at least 3°C above the dew point.
<b>Substrate temperature</b>	Temperature of the substrate should preferably be between +5°C and +40°C for fast and easy application. Preheating may be required when temperature < 5°C.
<b>Concrete surface</b>	Concrete must be cured to at least a maximum residual moisture content of 5%. The area has to be clean, dry and free from oil, grease and dust. Remove free stagnant water, repair excessive cracks and resurface exposed aggregate and small voids with a suitable high-strength, fast curing, non-shrinking product. In case concrete stays wet a SFL-primer under the Sealtaq® Roofing Band is recommended.
<b>Steel</b>	Minimum requirement for surface cleanliness is St-2 according to ISO 8501-1. Roughness profile is not essential for adhesion.
<b>Other substrates</b>	De-gloss and degrease the surfaces by using an abrasive pad and isopropyl alcohol.
<b>Cleanliness check</b>	Take a small piece of Sealtaq® Universal Band of approx. 150 mm length, remove the release foil and fold it back for about 25mm. Put the band onto the surface, press it firmly and leave it for 5 minutes. Pull the band from the substrate with an angle of appr. 135 deg. And 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.
<b>Final control</b>	The substrates prepared for coating, should be clean, dry and free of dust according to ISO 8502-3, grade 3.
<b>Pre-Moulding of difficult corners in construction</b>	Before applying the Sealtaq® Universal Band it is recommended to fill in difficult corners, weldings and edges with Sealtaq® Paste to be sure that no water ingress can occur.

Application instruction: Brief version	
<b>Removal of release liner</b>	Remove the release liner just prior to the moment of adhesion of the Sealtaq® Universal Band to the substrate, such to avoid contamination of the adhesive surface of the product and to avoid unintended premature adhesion to the substrate.
<b>Patching</b>	Start with removal of a small part of the release liner and put the pre-cut Sealtaq® Universal Band onto the substrate. Continue with removal of small lengths of release liner immediately followed by adhesion to the substrate. Slight tensioning is allowed when wrapping around tubular objects, but avoid tensioning when patching onto e.g. flat substrates. Avoid air-enclosures. Mould the Sealtaq® Universal Band tight onto the substrate surfaces.
<b>Overlap of patches</b>	When the substrate is perfectly flat, the pre-cut material can be applied knocked against each other. When not, a minimum side-by-side overlap of 10 mm is required. This will be visual in the finished system. Use a steel seam-roller to ensure proper adhesion at overlaps.
<b>Coatings</b>	After application has finished it's recommended to apply a Seal For Life topcoating-system.
<b>Specific applications</b>	See specific Seal for Life application instructions for e.g. patching applications, etc..

Application instruction: Quality control	
<b>Visual inspection</b>	The appearance of Sealtaq® Universal Band must look smooth and tight and should cover all details.
<b>Holiday detection</b>	After application of Sealtaq® Universal Band on steel, and prior to application of additional coating materials, a holiday test must be generated according NACE SPO188. A brush probe is recommended. Further testing is not required.

Application instruction: Mechanical protection	
<b>Mechanical protection</b>	Once applied, Sealtaq® Universal Band can be protected against impacts, indentations, soil pressure and other influences by Seal For Life coating systems. Mechanical protection should overlap the boundaries of applied Band.

Handling and commissioning	
<b>Exposure to loads</b>	Objects coated with Sealtaq® Universal Band should not be exposed to loads e.g. from supports- or lifting equipment.
<b>Immersion or burying</b>	Immersion or burying is possible immediately after completion of the coating application. Consult data sheets for specific instructions of additional materials used. Backfill and compact with clean sand and filling material without sharp stones or hard lumps of soil.

Information	
<b>Documentation</b>	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 <a href="mailto:info@sealforlife.com">info@sealforlife.com</a>
<b>Certified staff</b>	Application of the described coating system should be carried out by certified personnel.



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