

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 and asphalt 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.

Sealtaq® Universal Band can be topcoated with 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 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, damaged roofs , gutters, chimneys, etc with product of 2 mm thickness (Sealtaq® Roofing Band Universal)

Product properties Sealtaq® Universal Band

Colour	Ivory
Thickness	1.2 ± 0.1 mm
Density	1.5 ± 0.1 g/cm³ (ISO 1183-1)
Temperature ranges	Operation: -45°C up to +50°C Substrate during application: -10°C up to +50°C
Water absorption	Compound: < 0.03% (ASTM D570)
Peel test	Tested at +23°C and +50°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%
Thermal ageing resistance and hot water immersion test	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

Product	Sealtaq® Universal Band
Art. Nr.:	Product dimensions and contents:
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
Handling	Handle with care. Keep boxes upright.
Storage	Store indoor, clean and dry, away from direct sunlight in a place between +18 and +30°C. Unlimited shelf life.

Application instruction: Job preparation		Application instruction: Brief version	
Tools, equipment and auxiliaries	<ul style="list-style-type: none"> – Temperature probe, Dew point tester, High voltage holiday tester – Scissors, Knife, Measuring tape; Steel seam-roller – Abrading pads, Wire brushes – Isopropyl alcohol, cas. nr. 67-63-0 – Personal protective gear 	Removal of release liner	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.
Additional coating materials	Depending on type of application, various additional materials might be needed: <ul style="list-style-type: none"> – 1-component waterborne acrylic paint – Seal for Life Coating systems 	Patching	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.
High humidity	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.	Overlap of patches	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.
Work area and substrate	The substrate surface should be dry, clean and protected against negative weather influences.	Coatings	After application has finished a recommended Seal For Life topcoating-system can be applied.
Product conditions	Sealtaq® Universal Band should be dry. For the ease of application, the preferred temperature should preferably be above +5°C.	Specific applications	See specific Seal for Life application instructions for e.g. patching applications, etc..
Application instruction: Surface preparation		Application instruction: Quality control	
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.	Visual inspection	The appearance of Sealtaq® Universal Band must look smooth and tight and should cover all details.
Degreasing	Degrease surfaces with isopropyl alcohol and e.g. a lint-free cloth.	Holiday detection	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.
Salts and bacteria	No need for additional cleaning.	Application instruction: Mechanical protection	
Preventing 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.	Mechanical protection	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.
Substrate temperature	Temperature of the substrate should preferably be between +5°C and +30°C for fast and easy application. Preheating may be required when temperature < 5°C.	Handling and commissioning	
Concrete surface	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.	Exposure to loads	Objects coated with Sealtaq® Universal Band should not be exposed to loads e.g. from supports- or lifting equipment.
Steel	Minimum requirement for surface cleanliness is St-2 according to ISO 8501-1. Roughness profile is not essential for adhesion.	Immersion or burying	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.
Other substrates	De-gloss and degrease the surfaces by using an abrasive pad and isopropyl alcohol.	Information	
Cleanliness check	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.	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@sealforlife.com
Final control	The substrates prepared for coating, should be clean, dry and free of dust according to ISO 8502-3, grade 3.	Certified staff	Application of the described coating system should be carried out by certified personnel.
Pre-Moulding of difficult corners in construction	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.		



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