

ASO[®]-Tape

Thermoplastic joint tape for waterproofing construction and movement joints



Material number	Length	Width, article	Material thickness	Packaging	Colour
206427002	20 m	20 cm	approx. 1 mm	Roll	Grey
206427004	20 m	30 cm	approx. 1 mm	Roll	Grey
206427007	20 m	20 cm	approx. 2 mm	Roll	Grey
206427009	20 m	30 cm	approx. 2 mm	Roll	Grey
206427010	20 m	50 cm	approx. 2 mm	Roll	Grey

Fields of application / waterproofing

- For waterproofing construction and movement joints in concrete structures
- For waterproofing cracks and voids in concrete structures
- System component of ASODUR[®]-K4031

Product features

- Highly flexible
- Frost resistant
- UV and ageing-resistant

Advantages

- Easy, homogeneous weldability
- Watertight even under negative water pressure
- Application without primer also on matt damp substrates

ASO[®]-Tape

Technical Data

Material properties

Product components	Roll goods		
Base material	TPE		
Surface weight	approx. 900 g / m ² ± 5%		
Values in accordance with material thickness	Material thickness	1.0mm	2.0mm
	Surface weight (g/m ²)	approx. 900	approx. 1800
	Tensile strength in accordance with DIN EN ISO 527-3 (N /mm ²)	approx. 14.0	approx. 14.0
	Elongation at break in accordance with DIN EN ISO 527-3 (%)	approx. 1,000	approx. 1,000
	Tear resistance in accordance DIN 12310-2 (N)	approx. 100	approx. 200
	Extension (unbonded area) under sustained load (%)	max. 10	max. 25
Sealing against pressing water until	5 bar		
Watertightness against negative pressing water	to 5 bar		
Classification of the reaction to fire in accordance with DIN EN 13501-1	E		

Application

Application temperature	approx. 5 - 35 °C
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Material rate

Material consumption rate according to the area of application

Material rate of ASODUR-K4031:

Package type /material thickness	Consumption in kg/m	
	1,0 mm	2,0 mm
200 mm	approx. 1,0	approx. 1,5
300 mm	approx. 1,3	approx. 1,8
500 mm	-	approx. 2,4

Processing equipment

Aids/tools

- Welding unit with wide nozzle
- Pressure roller

Suitable substrate

Concrete

Preparing the substrate

Requirement for substrate

1. Load-bearing
2. Clean
3. Free of adhesion inhibiting substances

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Preparing the surface

1. The substrate may be matt damp.
2. Water puddling is not permissible.
3. For substrates other than concrete, the suitability must be checked in advance by carrying out a trial adhesion.
4. In the case of strip joint seals, the concrete must have water tight properties. Otherwise, the joint waterproofing must be combined with a suitable area waterproofing.

Application

Construction joints / strip-form waterproofing

1. Apply ASODUR-K4031 at least 1 cm wider than the joint tape on both sides of the joint to be bridged.
2. The joint tape is then inserted and meticulously embedded in the adhesive layer with a trowel or pressure roller, with no wrinkles or voids, and trowelled on top with ASODUR-K4031.
3. The joint strips must be fully embedded.
4. The adhesive and filler layer thickness should not be less than 1 mm each.
5. Joint-Tape edges can be glued with an overlap of at least 5 to 10 cm or, alternatively, hot-air welded.

Movement joints

1. Apply ASODUR-K4031 at least 1 cm wider than the joint tape on both sides of the joint to be bridged.
2. The joint tape is then inserted and meticulously embedded in the adhesive layer with a trowel or pressure roller, with no wrinkles or voids, and trowelled on top with ASODUR-K4031.
3. To accommodate movements, an unbonded expansion area must be provided in the joint area.
4. Movement joints are always applied with 2 mm ASO-Tape and can be laid flush or looped depending on the project.
5. Depending on the installation and load situation (e.g. overhead application or negative water pressure), a support or protective structure may be required.
6. The adhesive and filler layer thickness should not be less than 1 mm each.
7. Seal joint-tape edges with overlap of at least 5 to 10 cm by hot-air welding.

Hot air welding

1. The joint strips are cut to size for the project (butt or corner joint) and laid on a level substrate.
2. Prods are to be overlapped with >5 cm. In case of water pressure > 2 bar, overlap the prods with > 20 cm.
3. The overlap area is roughened and cleaned with sandpaper.
4. The welding temperature (reference values: approx. +300 °C to +350 °C) must be set by a test weld.
5. Place the joint strip prods on top of each other to fit and fix them in place by spot welding in the edge area. This prevents slippage during welding.
6. Then the wide nozzle of the hot air tool is pulled slowly and evenly through the overlap area and joined together to ensure coverage over the whole area with the pressure roller.
7. Before installation, the welds must be checked again for a complete, tight bond.

Storage conditions

Storage

Cool, dry, protected from sunlight. Min. 12 months in the original canister.

Disposal

Product leftovers can be disposed of in household waste.

Notes

- Unlike Hypalon joint sealing tape strips, ASO-Tape does not need to be additionally activated and must not be brought into contact with solvents.
- The joint tape must be protected against mechanical damage by suitable protective measures.
- With negative water pressures > 0.5 bar, a suitable support structure (apron plate) is essential.

Relevant regulations

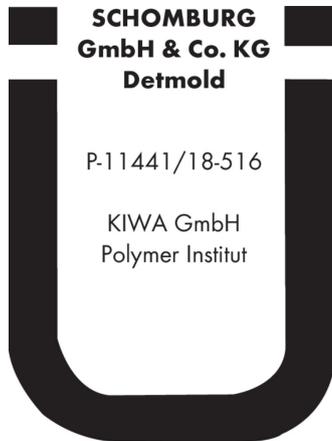
The recognised standards of construction engineering, the relevant guidelines and current regulations must be observed.

Observe applicable safety data sheet!

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Explanations

Conformity / Declaration / Verification



Chemical durability

The chemical resistance after 7 days storage at +22 °C exists in the following chemicals:	Concentration
Hydrochloric acid	3 %
Sulphuric acid	35 %
Citric acid	100,0 g/l
Lactic acid	5 %
Caustic potash	20 %
Sodium hydroxide	0,3 g/l
Seawater	20,0 g/l

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