BITU-STRIP

KM BITU-STRIP: TECHNICAL DATA SHEET

Product Description

KM BITU-STRIP is a preformed self-expanding foam sealant produced by impregnating high-density, open cell polyurethane foam with water-based, polymer-modified asphalt, (also known as bitumen emulsion), hence permanently elastic.

KM Bitumen perform is best on applications where simple thermals and seismic movement are anticipated and stay water tight.

Benefits

- Weather seal for wind-driven rain
- Watertight when compressed under 1:4 or higher ratio
- Breathable – for vapour diffusion
- Permanently Elastic maintaining sealing performance under thermal and seismic movement/ pressure.
- Thermal and Acoustic Insulation
- Resilent, Traffic- Durable
- Difficult to Vandalize
- Resistant to Deicing Salts
- Exposed Face remains flat regardless of variation and changes in joint width and compression
- Vermin proof
- Resistant against UV, fire and petroleum from traffic when compressed
- Attached to Porous Surface

Applications

KM BITU-STRIP is an impregnated joint sealing tape for use in a wide variety of movement joints including window perimeter seals and other applications.

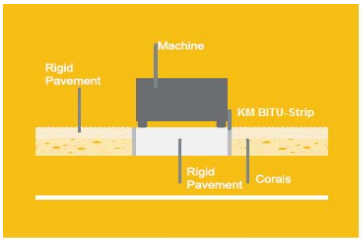
KM BITU-STRIP is suitable as movement joint, installed around perimeter of suspended slab to isolate vibration caused by loaded machinery or objects.

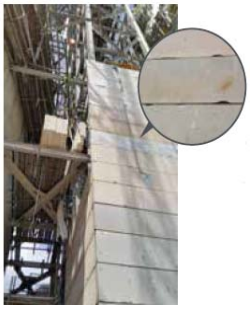
KM BITU-STRIP in Precast Concrete is used to fill the space between precast concrete connection where KM BITU-Strip have a permanent flexibility that holds or accommodate movement between the substrate and keeping from water ingress. It can be placed in joints in concrete floors, foundations, in interior walls, partitions, in brick and block expansion joints.

KM BITU-STRIP can be used in roof construction between corrugated fibre-cement and metal sheets, even in low-pitch roofs.

Also, to fix air conditioning units, ducts, to seal street lamps, access hatch, etc.

KM BITU-STRIP is used in bridges, dams, road construction, landing strips, sewerage and water treatments plants, swimming pools, concrete and earthenware pipe joints.





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KM BITU-STRIP as Connection/ Separator in the building expansion joints, catering for shear & lateral movement.

Typical Physical Properties

Property	Value	Test Method
Base Material	Open Cell, High Density, Polyurethane foam	N/A
Impregnation	Modified Bitumen Emulsion	N/A
Color	Black	N/A
Tensile Strength	21 psi min (145 kPa)	ASTM D3574 Test E
Elongation – Ultimate	150% min	ASTM D3574 Test E
Temperature Range		
High – Permanent	185ºF (85ºC)	ASTM C711
High – Short term	203ºF (95ºC)	
Low	-40ºF (-40ºC)	
Softening point	140ºF min (60ºC)	ASTM D816
UV Resistance	Excellent	
Mildew Resistance	Excellent	
Resistance to Aging	Excellent	
Bleeding	None(when compressed	
-40ºF to 180ºF	down to 20% of	
(-40ºC to 85ºC)	uncompressed thickness)	
Compression set 70ºC 50% RH, after 72 hrs	3% max	ASTM D3574 Test D
Thermal conductivity	0.34 Btu In/hr. $ft^{2.}$ ºF (0.05 W/m. ºC)	ASTM C518
Low Temp. Flexibility	No cracking or splitting	ASTM C711
32ºF to - 10ºF		
(0ºC to -23ºC)		
Water Vapor Transmission at 25% Compression	0.011 perms	ASTM C355-64

The correct functioning of the tape can be achieved only under the condition if the tape is installed in accordance with our latest processing instructions, or has not applied and not been exposed to any unforeseeable influences for us. Decomposition caused by external effects is not covered by the warranty. Decisive for the acceptance of a possible warranty claim: The professional processing by said standards and compliance with the processing instructions. Standing water or permanent water wetting cannot be permanently compensated by the product and is not a reason for complaint/claim. All commitments are relating to the use of the product at the Central European climate conditions. Before mounting read the manufacturer's processing instructions. If the manual is not available, contact the manufacturer or reseller. The technical data are subject to change with the degree of compression.

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Installation Recommendations

- Detailed application instructions are available and provided with every order.
- After measuring the width of the joint and ensuring the total movement is within the capacity of the selected tape size, application may proceed.
- Cut off the preliminary strip and the opening wedge at the start of the roll.
- If installing tape into a construction joint with a cross-joint, it may initially be applied either horizontally or vertically (from bottom to top.) However, when applying to a door or window frame the horizontal seals must be applied before the vertical ones. Tape must be applied with the adhesive side to the frame when working with fenestration but may be applied in any order when working with construction joints. In both cases do not stretch the tape. When working in damp or cold conditions a wood wedge should be used to hold the tape in position until it is expanded. Ensure the tape is recessed by a minimum of 2 mm.
- When calculating the length of tape to be fitted, add 10 mm/m to the actual joint length. Be sure to measure the opening and not the window.
- At the end of a roll, cut off the tape wedge finish. Repeat the process with a new roll, making a close compressed butt connection as shown. At cross of crucifix joint, install under compression.
- If the seal is to be tested with water test, we recommend a minimum tape width of 25 mm. The tape should be allowed 7 - 10 days conditioning in the joint before testing.
- When installing KM BITU-STRIP between a window and a sloping sub-sill, the joint must be no more than 5° out of parallel. KM BITU-STRIP should be applied to the 'level' face of the joint.

Cutting

- Large sections can be cut with wet snips or a hot serrated blade. Small sections can be cut with scissors or a knife.

Joining

- KM BITU-STRIP is normally supplied in 2-M strips. Any number of lengths can be joined to make a continuous strip or ring as follows:
  Small Dimensions: Overlap the ends about 25mm and press together.
  Larger Dimensions: Slice at about 300 deg. Angle, and place in the joint so that the pressure is applied to the mating surface. Ensure that the joined surfaces are held under compression in the joint.

Placing

- After compressing to the desired dimension, squeeze KM BITU-STRIP into the joint and force it down using a nylon wheel.

Health & Safety Precautions

Safety data sheet must be read and understood before use.

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