

Technical Information Sheet Article No. 9904

Flexible Joint Bandage

High performance joint bandage based on modified hypalon rubber.

Advantages

- Resists water pressure.
- Easy to install.
- Applicable on dry and damp (not wet) surfaces.
- For large expansion joints or cracks.
- Permanent elasticity even at low temperatures.
- Weather resistant.
- Resistant to chemicals.
- No need to remove existing failed sealant.
- Suitable for contact with potable water.
- Suitable for new and existing joints.
- High joint movement capacity.
- Can be internally or externally applied.
- Accommodates variation in joint width.

Description

Flexible Joint Bandage is a highly elastic, rot-proof and chemically resistant sealing sheet with a thickness of 1 mm or 2 mm. Flexible Joint Bandage is used together with Epoxy Structural Adhesive which is epoxy resin based and establishes a strong bond to the substrate.

Characteristic data of the product

Elongation at break:	> 400%
Tensile strength:	> 6.0 N/mm ²
Tear propagation strength:	> 300 N/cm
Maximum permissible permanent elongation:	1.0 mm strip – 10% of non adhered width 2.0 mm strip – 25% of non adhered width For higher movement place and fix a loop
Artificial weathering:	10,000 hours passed
Pulsation resistance:	(5% extension, 4 cycles per sec) >100,000 cycles
Vibration resistance:	(5% extension, 4 cycles per sec) >100,000 cycles
Water pressure resistance:	Depending on joint design, up to 1 – 2 bar (25psi back pressure)
Bond on system:	Concrete. 2.0 N/mm ² (Substrate failure)

Range of Use

For sealing construction joints, expansion joints, connection joints, cracks and fissures on concrete and masonry for:

- Tunnels, culverts and ventilation ducts.
- Reservoirs and water retaining protection.
- Swimming pools.
- Silos.
- Waste water treatment plants.
- Industrial floors.
- Basements and cellars.
- Failed joint sealants.

Surface Preparation

Concrete:

The concrete surfaces should be mechanically cleaned, preferably by blast cleaning followed by vacuuming. The laitance must be removed to establish good adhesion. All surfaces must be clean, sound and free from any oil, grease or other contaminants. Concrete should be at least 3 weeks old.

Steel:

Grind or grit blast to a clean bright metal finish.

Preparation

Thoroughly wipe both sides of the Flexible Joint Bandage sheeting strips with Thinner V101. Allow to dry. Do not use too much solvent and avoid damaging the red masking tape. Leave to dry, minimum one hour, maximum 8 hours.

Application

- The Flexible Joint Bandage strip is activated on both sides with Thinner V 101 using a clean cloth. Leave to dry for at least 1 hour - max 8 hours.
- Use masking tape either side of the joint to provide a neat edge and over the middle of the new or existing joint.
- Mix Epoxy Structural Adhesive (components A and B) for a minimum of 3 minutes until the mix is homogeneous.
- Apply Epoxy Structural Adhesive on both sides of the joint onto the prepared substrate. Layer thickness 1 - 2 mm width (on each side) at least 50 - 60 mm.
- Remove masking tape from the middle of joint.
- Place activated Flexible Joint Bandage in position with red tape facing upwards and roll it to remove entrapped air.
- Apply Epoxy Structural Adhesive on top of the strip.

- Remove masking tapes from the joint sides as well as the red middle tape from Flexible Joint Bandage. Smooth Epoxy Structural Adhesive with brush.
- Flexible Joint Bandage overlap connections should be a minimum of 30-50mm and bonded with hot air welding gun and plate.

Refer to application details - contact Remmers (UK) Ltd.

Important Considerations

- Use Epoxy Structural Adhesive for potable water contact.
- Refer to Epoxy Structural Adhesive technical data sheet.
- Do not use Thinner V101 inside water potable structures. Solvent wipe outside structure.
- This joint sealing method can be carried out horizontally, vertically or overhead. However, it should be noted that Epoxy Structural Adhesive is not a contact adhesive and some support of the uncured strip may be required on overhead structures.
- The Flexible Joint system must be protected from mechanical damage.
- Where exposed to water pressure the strip must be supported in joint by foam or sealant.

Limit without support: 0.5 bar - 5.0 bar using 2.0 mm thick Flexible

Joint Bandage.

Cleaning

Clean tools immediately with Thinner V101.

Packaging

Refer to latest price list.

Consumption

Per linear metre Flexible Joint Bandage, width 10 cm, approx. 0.4 - 0.6 kg Epoxy Structural Adhesive (depends on surface roughness, etc.).

Storage

Minimum 1 year in unopened original sealed packing stored in dry warehouse conditions (+5°C - +25°C).

Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as disposal and ecology are found in the latest Safety Data Sheet.

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

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In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.



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