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Flexiseal HD Reinforced Bituminous Tape

**Stress relieving and waterproof
membrane**

www.polyfabrics.com.au

Stress Relieving & Water Proof Membrane

FLEXISEAL HD

Flexiseal HD is a composite self-adhesive membrane incorporating high performance moisture and water resistant rubberised bitumen with an integral robust, puncture and heat resistant polypropylene reinforcing woven.

FEATURES

Cold applied

No heating plant or hot bitumen bedding adhesive required, self-adhesive overlaps provide continuity.

Release Paper

Protects the adhesive surface until ready to be used.

Robust

Accepts road paving machinery.

Pre-formed

Guaranteed thickness, not subject to site variation.

Woven reinforced

Provides dimensional stability and resistance to damage.

Rubber/bitumen

Self-adhesive, elastic compound provides bonding and transmission of braking forces to substrate, allows healing of small punctures.

Flexible

Easily applied. Conforms to changes in profile and accommodates shrinkage cracks up to 0.6mm.

APPLICATION

Flexiseal HD is supplied in rolls intertwined with special release paper that protects the adhesive surface until ready for use and allows for easy handling during installation. Flexiseal HD is supplied in rolls up to 1.0m wide, 10.0m long and has a thickness of 1.5mm. The release paper is removed during installation. The membrane is self-adhesive and cold applied.

Flexiseal HD applications include:

- As a waterproofing membrane in plazas, bridges, vehicular traffic structures and car parks overlaid with an Asphaltic Concrete (AC). It's adaptable for either new construction or for repair applications.
- Restoration of concrete pavements with AC overlays as a stress relieving membrane preventing reflection cracking over transverse and longitudinal joints in concrete and in treated sub-bases.

SPECIFICATION

PROPERTIES	STANDARD	UNITS	VALUE
Thickness	-	mm	1.5
Puncture Strength Woven	ASTM G154	N	1548
Puncture Resistance Composite	ASTM E154	N	1535
Puncture Strength Woven	ASTM G154	N	1548
Tensile Strength Woven	ASTM D882	N/50mm	1255
Tensile Strength Composite	ASTM D882	N/50mm	1174
Elongation Bitumen Component	ASTM D412	%	436
Low Temperature Flexibility Composite (150C)	ASTM D1970	-	No Cracking
Adhesion	ASTM D1000	N/25mm	64.6

INSTALLATION



Surface Preparation

Smooth concrete surfaces are required for proper adhesion. Surfaces must be dry, free of voids, dust and loose aggregates.



Priming

Apply Flexiseal HD Primer to all concrete or masonry surfaces with a roller or airless spray gun (6 - 8 m² / litre). Allow primer to dry or until tack free. Prime only the area which will be covered with Flexiseal HD strip in a working day. Areas not covered in 24 hours must be re-primed.



Temperature

Apply Waterproofing Membrane Flexiseal HD only in fair weather when air and surface temperatures are above +5°C.



Paving

The AC overlay should be placed as soon as possible after application of Flexiseal HD. A minimum of 50 mm compacted overlay is recommended. The preferred AC temperature in the paving machine hopper is 140°C - 160°C. Paving must not be started following rain until the membrane surface is dry. Only AC delivery equipment should be permitted on the membrane prior to placement of the AC. Flat tracked or pneumatic tyre equipment may be used. In the event of skidding of the pneumatic tyre machine during warm weather, broadcast a very small amount of AC.



Precautions

Care should be taken to minimise the possibility of pavement shoving on heavy traffic structures with more than a 4% grade.



