

www.fultonhogan.com

FibreDec®

What is FibreDec®?

FibreDec is a heavy duty fibre-reinforced emulsion seal for the rehabilitation and control of reflective cracking in pavements. It is a unique process incorporating fibre glass and a specially formulated polymer modified emulsion to produce an extremely strong and crack resistant membrane. These unique properties act to extend the serviceable life of pavements without the costly expense of rebuilding.

How is FibreDec applied?

A specially designed sprayer is used to apply a glass fibre reinforced membrane where the glass fibres are sandwiched between two layers of polymer modified emulsion in a single pass. This membrane is then covered with aggregate to form a very tough strain alleviating, waterproof seal.

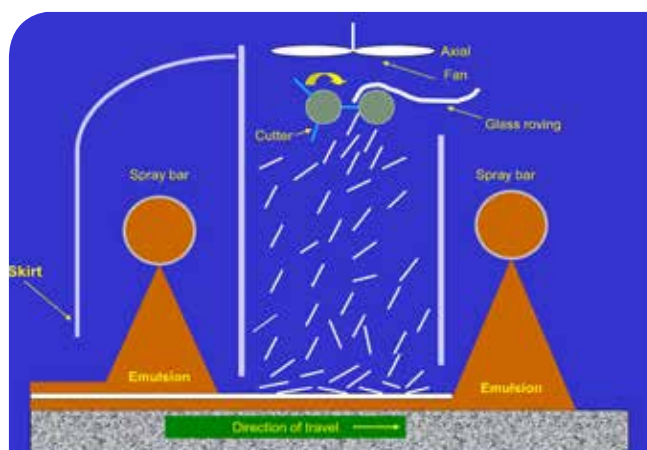
The all-in-one stress relief solution

As well as providing an extremely tough wearing course resistant to reflective cracking, FibreDec may also be used as a Strain Alleviating Membrane Interlayer (SAMI). This reinforced membrane can be used as an effective technique to:

- Inhibit reflective cracking from base layers into bituminous overlays when sprayed directly onto base layers
- Control the propagation of cracks into pavement layers from expansive sub-grades when sprayed directly onto the sub-grade.



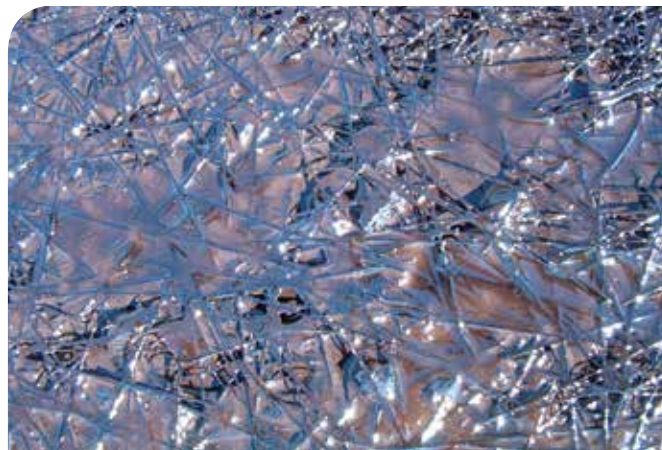
FibreDec with Surfrix® fog seal



The FibreDec process.



Rolls of glass fibre are fed into the FibreDec applicator box.



FibreDec membrane before aggregate cover.



FibreDec combines the flexibility and strength of glass fibre with polymer modified binder to extend pavement life.

Versatility over different pavements

A 10mm FibreDec seal is suitable for reseals over existing pavements as well as seals on new crushed rock pavements (as either a SAM or SAMI).

Application of EmulPrime® is strongly recommended prior to applying FibreDec directly onto crushed rock pavements where the FibreDec is used as:

- A wearing course or
- Strain Alleviating Membrane Interlayer in high stress areas (e.g. intersections, tight corners, heavy braking areas, steep climbs etc).

14mm FibreDec seals are recommended for reseals on rural roads where a high macrotexture is generally desirable.



FibreDec surfacing over a cracked pavement wearing course (SAM)



FibreDec used as a strain alleviating membrane (SAMI)

Why choose FibreDec?

- FibreDec is a cost effective treatment for both new construction and existing distressed pavements
- Speed of application results in minimal disruption to traffic
- Unlike geofabrics, FibreDec is readily applied around bends, corners, and in braking or accelerating areas
- FibreDec can be applied as either a wearing course (SAM) or as an interlayer (SAMI)
- Unlike geofabrics, no extended trafficking period is required between application and overlay
- Can be applied even under cool conditions unlike conventional PMBs
- Glass fibre complements the modified binder, enhancing tensile strength and durability
- Where specified as an interlayer membrane, it can be trafficked between placement and asphalt overlay with minimal risk of stone loss
- Unlike geofabrics, FibreDec can be applied even under moderately windy conditions.

Suitable for a whole range of applications

FibreDec has proven both effective and practical for use on both bound and unbound surfaces in many different applications including:

- Motorways, major arterial and regional roads
- Regional and international airports
- Residential streets and commercial developments.

FibreDec®



FibreDec® is a registered product of Fulton Hogan

Sydney: T: +61 2 9603 6999
Melbourne: T: +61 3 8791 1111
Adelaide: T: +61 8 8139 4500
Perth: T: +61 8 9454 0100
Darwin: T: +61 8 8932 2700
Brisbane: T: +61 7 3827 7922

F: +61 2 8796 2543
F: +61 3 8791 1100
F: +61 8 8349 4250
F: +61 8 9454 2099
F: +61 8 8932 2608
F: +61 7 3807 4773

info@fultonhogan.com.au
www.fultonhogan.com