

## ANTI-REFLECTIVE CRACKING MEMBRANE

[www.gripset.com](http://www.gripset.com)

TECHNICAL DATA SHEET

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### Description

The Elastoproof Anti-Reflective Cracking Membrane is an innovative high strength waterproof sheet layer designed to extend the life of pavements and asphalt wearing courses by protecting surfaces against reflective cracking.

The Anti-Reflective Cracking Membrane forms a waterproof surface that reduces the level of moisture absorbed into the base layer while providing high strength reinforcement that spreads loadings on road surfaces showing early signs of cracking. This unique self-adhesive bituminous sheet, based on advanced polymer reinforcement technology, has been specifically designed for asphalt overlays and can be applied directly to intermediate layers or existing asphalt surfaces before finishing over with a new asphalt wearing course.

Traditional methods of repairing cracked pavements with reinforcing fabrics, geotextile materials or new sheeting layers etc. allows water ingress through wearing courses into base layers. This retained water in the base layer is forced upwards when heavy traffic is applied to the wearing course, commencing the reflective cracking process where water is pushed up into fine surface cracks with the cycle of cracks becoming more severe, wider in size and in larger spans, leading to the inevitable break down of road surfaces. Furthermore, the application of asphalt over fabrics is often not uniform due to the difficulty in controlling the fabric over the prepared surface, with wrinkling and rippled sections of the fabric.

The Elastoproof Anti-Reflective Cracking Membrane when covered with a hot applied wearing course provides a bitumen layer that bonds and binds the new and existing surfaces as one body, with outstanding adhesion properties, optimum strength and a waterproof layer that will preserve and extend the longevity of road pavements.

### Features & Benefits

- \* Self-adhesive, enabling ease of application on large damaged roads
- \* High breaking load
- \* Reduces incidence of reflective cracking
- \* Reduces stress and fatigue on pavements
- \* Reduces rutting of pavements
- \* Protects pavement cracks against water ingress
- \* OHS and environmentally friendly, as a cold applied system requiring no heating or use of solvents
- \* Cost saving repair system on small and large areas
- \* Quick installation time, allowing immediate application of asphalt layers
- \* Compatible with a range of pavements and slurry products

### Application

- \* ARC Membrane is suitable for civil, industrial and commercial applications

### Uses

- \* Repairs to roads and pavements affected by crocodile cracking, surface depressions, and damaged base layers
- \* High strength joint reinforcement membrane between different substrate abutments for road extensions
- \* Load spreading over unstable asphalt and bitumen sub bases
- \* Protective underlayer before asphalt re-surfacing
- \* Waterproofing suspended car park surfaces (part of Gripset Car Park waterproofing system \* Refer to Gripset Technical Department)

### Surface Preparation

- \* Surfaces must be clean, dry and free from surface residues, including loose stones, spurs, aggregate etc.
- \* Surfaces affected by oil deposits/residues must be degreased with Gripset DG
- \* Loose or separated asphalt, crumbling sub bases and broken surfaces must be removed and regulated using Gripset Cold Mix filling compound, ensuring all affected areas and surface voids are even and full.
- \* Cracks in excess of 3mm wide to be filled with Gripset Cold Mix filling compound

### Installation

- Once surfaces have been correctly prepared, apply Gripset B04 as a primer coat to existing asphalt surface at a coverage of 1 litre/8m<sup>2</sup>. Allow 20 minutes drying before laying sheet
- \* Unroll the sheet parallel to the longitudinal direction of the road
- \* Remove the release paper from the rear of the sheet and place onto the primed surface, ensuring the starting edge is pressed into position. Continue slowly unrolling the sheet in position
- \* Ensure waves, bubbles and creases are removed when laying the sheet. Best results achieved by pressing the sheet onto the surface with a straight edge bar while the roll is being unwound
- \* The sheet must be overlapped by a minimum 50mm when laying subsequent sheets, ensuring overlapped edges are well bonded to the sheet below. This is to ensure mechanical continuity
- \* Minimum temperature of asphalt must be 130°C and is to be applied directly over the Gripset Anti-Reflective Cracking Membrane, to ensure optimum cohesive properties between the old and new surfaces

### Storage

- \* Product is best used within 12 months of purchase, however properties of product will be unchanged if stored correctly
- \* Best stored at room temperature in dry internal conditions between 5°C and 40°C
- \* Not affected by frost

### Packaging

- \* 1m x 20m rolls (packaged in cardboard protective cartons)
- \* Pallet quantities of 25 rolls

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### Precautions

- \* Not to be used as a finished road surface
- \* Application to be coordinated as the stage before asphalt is laid.
- \* Do not leave exposed for long periods uncovered, to avoid mechanical damage.
- \* Do not apply solvent based surface finishes or adhesives directly over this product
- \* For further information contact technical department of Gripset Industries

### Technical Data

<b>Colour</b>	Black
<b>Thickness</b>	1.5mm
<b>Backing Melting Point (ASTM D276):</b>	> 400°C
<b>Tensile Strength Longitudinal (ISO 4606):</b>	> 40,000N/m
<b>Tensile Strength Transverse (ISO 4606):</b>	>24,000N/m
<b>Elongation at Break, Longitudinal (ISO 4606)</b>	2%
<b>Elongation at Break, Transverse (ISO 4606)</b>	1.6%
<b>Adhesion to Asphalt (ASTM D1000)</b>	>250N
<b>Plasticity/Impact Strength (DIN1996-19)</b>	75%
<b>Shore A Hardness (ASTM D 2240)</b>	70

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### Product Disclaimer

This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Gripset Industries does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.