

PRODUCT DATA

FIBRESCREED RC100MTR

A flexible repair for concrete and asphalt surfaces

For the treatment of severe cracks in highways and aircraft pavements

The Problem

The patented Fibrescreed range of materials and systems offers various solutions to a wide range of pavement and carriageway defects.

The vast majority of failures on highways and aircraft pavements originate from cracks and joints which are allowed to remain untreated for extended periods, allowing water and salts to penetrate leading to the rapid deterioration of the surfaces and more extensive sub-base failures.

Ennis Flint's Fibrescreed range of polymer modified bitumen based sealing compounds incorporate chopped metal and glass fibres, rubber granules and granite aggregate. These compounds are manufactured under strict factory conditions thus ensuring consistent quality and avoiding operator error as often experienced with 'on-site' mixing methods.

Fibrescreed materials and systems have the following advantages:

- Highly ductile, able to cope with most crack and joint movements
- Unique composition incorporating rubber granules thereby increasing load bearing capabilities
- Excellent recovery under varying temperatures
- Impervious to water and salts thus arresting further deterioration
- Fast installation minimising costly traffic management
- Good skid resistant finish
- Improves ride quality of surface
- Can be installed throughout the year
- Economic and cost effective

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Recessed Repairs

The criteria for a successful repair must include the following:

- Effective preparation
- Flexibility under all weather conditions
- Ability to withstand heavy traffic loading without deformation
- Excellent adhesion to prepared surfaces
- Impervious to water and salt penetration
- High skid resistant qualities
- The Fibrescreed Recessed Repair System meets all of these requirements

Benefits

Fibrescreed RC100MTR has been developed as a repair for areas where severe cracking has occurred and is suitable for use in heavily trafficked areas such as major trunk roads and motorways .

Fibrescreed RC100MTR is a high quality, hot applied bitumen based polymer modified compound reinforced with chopped fibres, rubber granules and granite aggregate.

The hot applied material completely fills and seals all the joints and cracks simultaneously with the formation of a stress absorbing membrane. The installed membrane reduces the horizontal strain applied to the asphalt overlay while maintaining the load bearing properties.

Typical Applications

- Reflective cracks in black top overlays and veneer surfaces
- Repair of joints and cracks in concrete carriageways and pavements

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Application

The defective area is milled to the required width and depth and using a mechanical planer, the surface is milled out to a width determined by the extent of the defective area. The recess is then cleaned and dried using hot compressed air to thoroughly prepare the surface, removing all debris and loose material.

Fibrescreed RC100MTR is immediately poured and screeded to fill the recess and overlap the edges. Whilst the compound is still molten, pre-heated high P.S.V. aggregate is applied to the surface.

Fibrescreed RC100MTR is for use by approved installers only. For full installation instructions, please see Agreed Method Statement, available on request for approved installers.

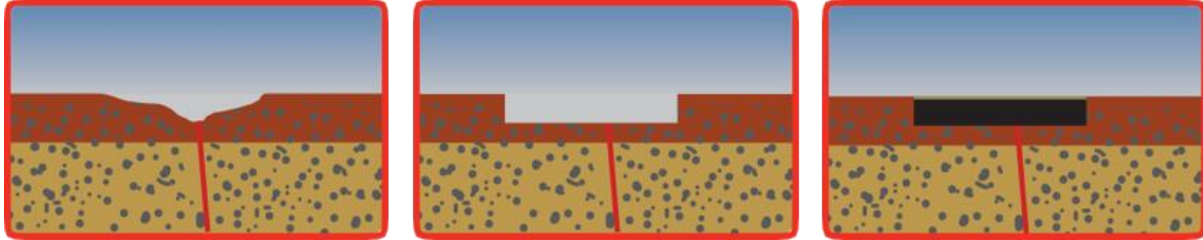
Material Specification

TEST	REQUIREMENT
Mandrel test (180° bend, 23°C)	PASS
Cone flow test (70°C, 3 hours)	Max. 10 %
Flow resistance (60°C, binder only)	Max. 2 mm
Softening point (binder only)	Min. 94 °C
Density (kg/l)	1.7 – 1.9
Compression resistance (10 mm/min, 23 °C)	Min. 500 N
Extension test (1 mm/min, 23 °C)	Min. 50 %, Max. 750 N
Skid resistance (initial, retained)	50, 60 SRV (minimum)
Wheel tracking rate (50 °C)	Max. 5 mm/hr
BBA (HAPAS) certification scheme guidelines (acc to 'Guidelines document for the assessment and certification of crack sealing systems for highways)	Complies with applicable test requirements for Inlaid Systems

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Ennis-Flint Fibrescreed

Recessed Repair



Certification

Fibrescreed RC100MTR is a BBA HAPAS approved Flexible Inlaid Crack Sealing System for Highways. Certificate number: 10/H165



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