GRIPFIBRE®
High Performance Microsurfacing
GRIPFIBRE® MICROSURFACING WITH HIGH SKID RESISTANCE

Today, roads are requiring more frequent maintenance and repair; however, traditional surfacing systems long favoured by conservative specifiers are becoming more difficult to justify in light of their cost and environmental impact.

Microsurfacings have proven their effectiveness in a large number of road projects and represent an excellent compromise between technical characteristics and cost. Jean Lefebvre (UK) has developed Gripfibre® a “second generation” microsurfacing that, in terms of skid resistance and durability has a track record second to none.

The innovative aspect of Gripfibre® is the inclusion in the formula of synthetic fibres. These make it possible to apply gap-graded formulations without risk of segregation and thus ensure lasting surface texture. They also reduce the risk of emulsion drainage and loose chippings when the road is re-opened to traffic.

**SUPERIOR SKID RESISTANCE**

Gripfibre® offers an effective and safe surfacing solution. The process represents an economic way to regenerate roadway surface characteristics on in both rural and urban areas, where its low thickness eliminates the need to raise the level of joints, kerbs and manholes.

Gripfibre® has been proven to have exceptional retained skid resistance values (TRL Report 570).

**KEY FIGURES**

- **Over 10 years** of technical success
- **65% reduction** in CO₂e emission when compared to conventional asphalt
- In excess of **6 million m²** installed in the UK

**100% BENEFICIAL**

Gripfibre® achieves unprecedented skid resistance and durability levels. It can be used for construction and maintenance of roads of all traffic loads. It is applied at high laying rates and can be rapidly re-opened to traffic, thus reducing inconvenience to users.
CAREFULLY SELECTED PERFORMANCE

> The aggregates used in Gripfibre® come from hard stone quarries, which the company carefully selects for the purpose. They meet the same requirements as those used in more conventional hot asphalt surface courses.

> The Gripfibre® binder is usually a cationic polymer-modified bitumen emulsion with slow controlled breaking properties, Emulvia® Grip P.

> The fibres are synthetic and over 4mm in length. They are added at a dosing of several million fibres per sq. metre to enhance the materials performance properties.

> The other additives, cement and surfactant in aqueous solution control the setting of the emulsion and adapt it to worksite conditions.

DEPENDABLE PERFORMANCE

Gripfibre® also waterproofs the pavement as well as providing a durable skid resistance. The macrotexture is high in new pavements and does not suffer a marked reduction over time. Skid resistance levels are also high and in newly laid surfacings and change very little over time.

<table>
<thead>
<tr>
<th>Initial textures</th>
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<tbody>
<tr>
<td>Continuous grade:</td>
<td>&gt; 1.0mm</td>
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<tr>
<td>Gap-graded:</td>
<td>&gt; 1.0mm</td>
</tr>
<tr>
<td>Gap-graded (HS):</td>
<td>&gt; 1.5mm</td>
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Gripfibre® is patented, as is the fibre proportioning system.

The process is covered by French Technical Opinion No. 137 and the British Board of Agrément HAPAS certificate number 04/H087

Gripfibre® is a registered trademark.