



Pavestech PST Limited

Pavestech Product Data Sheet

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Pavesgrip

"PavesGrip" is a highly modified urethane resin system which when cured comprises interpenetrating polymer networks, specially formulated for application of high friction surfacing on highways, it is cold applied, moisture tolerant during application, and it retains flexibility and impact tolerance when cured. It is solvent free / environmentally friendly.



For further information or a site survey and quotation, contact Pavestech at:

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1. Introduction

Experience over the last 30 years in the UK has shown that High Friction Surfacing can be highly effective in reducing both the number and severity of road accidents on sites with high traffic levels and increased risks, often known as “high event locations” such as crossings, junctions and bends.

There are many products now available and various methods of application, irrespective of resin type or whether hot applied or cold applied, all systems if applied to asphalt surfaces which have bitumen binder still on the surface are dependant on the strength of the aggregate/bitumen bond for their success and durability.

Often due to the different thermo-elastic properties between the resins used and the bitumen on the road surface early delamination and failure can occur.

The Pavestech “PavesGrip” (High Friction Surfacing) system overcomes these problems and can provide a much more durable result.

PavesGrip is a three component polyurea system, which when cured comprises interpenetrating polymer networks specially formulated for surfacing and binding applications.

The system has performance characteristics compliant with the “Type 1” requirements detailed in the “BBA HAPAS Guidelines Document for the Assessment and Certification of High Friction Surfacing for Highways”.

The main differences between PavesGrip and other products is that it is a complete system including a moisture tolerant resin binder and a preparation process which ensures the product is fixed directly to the aggregate and not just to the bitumen surface.

When cured the resin retains some flexibility and can therefore absorb energy and stress relax which gives it a high degree of durability in heavily trafficked situations.

PavesGrip does not require a primer on concrete or bituminous substrates, will tolerate damp conditions during application and will cure at low temperatures. (4hrs @ 3°C - 1hr @ 30°C)

2. Substrate and System Preparation and Installation

Substrate Preparation

Whilst the system requires no primer, for highways applications the substrate shall be prepared using the HVIM (High Velocity Impact Method).

This method removes any surface dirt and contaminants and in particular for asphalt substrates, any remaining bitumen from the surface of the aggregate. This is particularly important for newly laid asphalt and in particular SMA (Stone Mastic Asphalt) and Clause 942 TSCS's (Thin Surface Course Systems). The removal of this film of bitumen ensures that the HFS resin binder adheres onto the aggregate at the surface rather than the bitumen, thus preventing delamination and early failure.

All contractors shall operate in a manner compliant with the Pavestech Approved Contractor Scheme and be approved by Pavestech PST Ltd as trained and competent for this process. All operators shall hold the appropriate approval certification.

System Preparation and Installation

The PavesGrip Materials shall be mixed in accordance with the approved Pavestech Method Statement.

The mixed material remains in a mobile liquid form for approximately 6-10 minutes during which time the material shall be applied to the substrate at the appropriate spread rate.

The correct grade and size of bauxite or aggregate should then be applied. After this time a light gel is formed, as part of the curing process, lasting approximately 15 minutes.

The material will continue to cure and is suitable for trafficking after two hours, however the material properties will continue to improve over the next 24 - 48 hours.

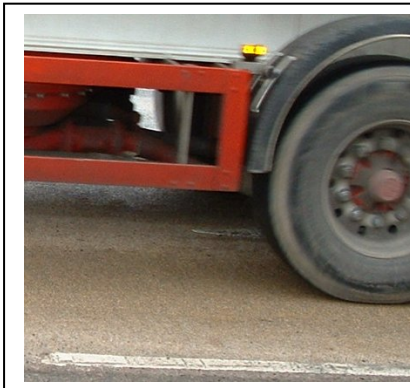
All contractors shall comply with the requirements detailed in the "BBA HAPAS Assessment and Surveillance Scheme for Installers of High Friction Surfacing for Highways" and be approved by Pavestech PST Ltd as trained and competent for this process and all operators shall hold the appropriate approval certification.

3. Health & Safety

Full COSHH information will be available on site and accompany materials when delivered.

Only trained operatives are used to apply the products.

As the resins are solvent free no hazardous vapours or odours are emitted.



For further information
A site survey or a
quotation, email your
request to:

Enquiries@pavestech.com

Or

Tel. 08456 44 70 33