



TSL HIGH FRICTION



THERMOPLASTIC HIGH FRICTION SURFACING MATERIAL (BBA TYPE1)

QUALITY MANAGEMENT SYSTEMS TO ISO 9001:2008

Product Description

TSL High Friction is a BBA/HAPAS approved Type 1 High Friction Surfacing material that complies with Clause 924 of the Specification for Highway Works; BBA Certificate No.04/H088, and NZTA P25 Pilot Specification for Calcined Bauxite.

The material consists of a thermoplastic polymer modified rosin ester binder with base fillers and 100% calcined bauxite aggregate (PSV 70+) and is manually applied hot using a screed shoe at temperatures between 180°C - 200°C. The finished surface is 4mm to 6mm thick and when used in accordance with NZTA Specification P25 will deliver a service life of between 6 and 10 years.

Typical Application

TSL High Friction is suitable for all classes of road where high skid resistance is required. It is particularly suitable for use on black-top surfaces with texture depths of between 0.5mm and 2.0mm and can be used on bends, junctions, roundabouts and pedestrian crossing approaches. It can be used in high stress areas and on highly trafficked roads (up to 3,500 commercial vehicles per day) such as motorway slip roads and busy trunk roads.

Advantages

TSL High Friction has several advantages over cold-applied systems.

- Suitable for new and old surfaces
- Less susceptible to weather extremes
- Better cost effectiveness
- Can be laid all year round
- Rapid curing, typically 15 to 30 minutes
- Can repair and regulate existing surface defects such as potholes and wheel ruts

Colour

TSL High Friction comes in two standard colours; buff and dark grey. Approved pigments may be added to the mix to produce a range of colours including red, green, yellow and blue. It is important to appreciate that with wear the natural aggregate colour will show through. Dark grey base is recommended for red pigmentation and buff base is recommended for yellow. Our TSL High Friction range of products use naturally coloured high PSV aggregates selected to ensure better colour retention with a high Skid Resistance Value.



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Binder

TSL High Friction Binder is a blend of modified rosin ester, plasticiser, thermoplastic rubber and ethylene vinyl acetate copolymer.

Aggregate

TSL High Friction Buff uses 100% buff calcined bauxite aggregate. TSL High Friction Dark uses 100% grey calcined bauxite aggregate.

- Minimum Polished Stone Value (PSV) 70
- Typical Aggregate Abrasion Value (AAV) 4

Preparation

Prior to application the surface must be sound and in good condition. It must also be clean, dry, and free from foreign contaminants such as oil & rubber residue, flushed bitumen and road markings. To ensure the desired product lifecycle is achieved TSL strongly recommends that the surface is prepared using TSL's Stripe Hog Watercutting Technology.

Aftercare

TSL High Friction materials can be trafficked once it has cooled to 35°C, typically 15 to 20 minutes after application. This period may need to be extended in hot weather. New sites should be monitored for loose aggregate and mechanically swept if required.

Disclaimer

The information contained herein is accurate to the best of our knowledge and belief as at the date issued. The information and recommendations are offered for the user's consideration and examination for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

It is the user's responsibility to satisfy itself as to the suitability of such information for its particular use and to carry out their own hazard identification assessment.