

Description

Hotgrip is a hot applied thermoplastic high friction surfacing (HFS) system designed to provide the road user with high skid resistance. High friction properties are achieved and maintained throughout the service life of Hotgrip by the use of calcined bauxite aggregates. Hotgrip is available in a range of colours.

Hotgrip is used to provide high friction pads on areas such as road carriageways, intersections, junctions, pedestrian crossings, roundabouts, traffic lights, sharp or adverse cambers on bends, car park ramps and any other potentially hazardous road surfaces.

Benefits

- High performance high friction surfacing
- Easy to apply
- Cost-effective
- Rapid return to service
- Good bond to most road surfaces
- Resistant to water ingress

Technical

Skid Resistance (SRV)	>70
Heating Temperature (Max)	220°C
Pouring Temperature	190±10°C
Specific Gravity (tonnes/m ³)	2.3±0.1
Softening Point (Wilhelmi)	>95°C
Nominal Thickness of system	3.5 mm
Spread Rate (m ² /tonne)	90-110

Colours

Chinese Buff Bauxite and Chinese Grey Bauxite

It is recommended that samples are requested from us to ensure that Hotgrip meets specific colour and texture requirements.

Important: Hotgrip is designed primarily for skid resistance, not long-term colour retention so colours will wear back to the bauxite aggregate after a period of trafficking. Where lasting colour is the overriding concern, the use of Geveko Markings Gripex product should be considered.

Surface Preparation

Ensure that the road surface temperature is not below 5°C and that it is sound, clean, contamination free and suitable for the purpose. Sweep away loose and foreign matter. Remove oil, grease and similar contamination by scraping away or by the use of degreasing agents, or preferably using hot compressed air. Regulate depressions and pot holes with suitable repair materials and tamp or roll thoroughly to ensure total compaction.

All substrates must be dry at the time of application and ensure that any presence of salt has been thoroughly washed away.

Use masking tape to ensure neat edges, but remove before material has fully hardened. Badly worn bituminous or concrete surfaces should be treated with Geveko Markings Bitex primer (see separate data sheet) prior to the application of hot applied surfacing.

Application

The maximum safe heating temperature of 220°C should never be exceeded otherwise deterioration of the pigment and the resin binder will occur.

Hot applied surfacing is supplied in meltable polythene sacks, which enables the whole sack to be placed into a pre-heater fitted with a mechanical stirrer and thermometer. A horizontally mounted stirrer in the boiler is advised to prevent settlement of aggregates. When the material has been heated to the required application temperature (see Technical) and is molten, homogenous, lump and segregation free, use a pre-heated bucket and pre-heated steel hand mould (or 'screed box') to apply the Hotgrip quickly, avoiding unnecessary heat loss.

Application is normally carried out transversely across the road surface. Screed out at a constant and steady rate to achieve even thickness and texture. The screed box should be kept filled during application and care should be taken to ensure that butt joints are kept neat, level and tidy between applications. Allow the material to cool and sweep off any loose debris. Surfaces treated with hot applied surfacing material can be returned to traffic typically within 20 minutes of the initial application.

Aftercare

Under normal traffic conditions with temperatures within normal ranges and periodic rainfall, hot applied surfacing material should be self-cleaning and require no ongoing maintenance.

Packaging and Storage

Hot applied surfacing materials are packaged in meltable polythene sacks and sold stretch-wrapped on pallets of approximately 1 tonne. This may vary for export/shipping requirements. The sacks contain vent holes through which water can enter and therefore the material should be stored under cover in dry conditions. Under normal circumstances, hot applied surfacing has a shelf life of at least one year.

Health and Safety

See separate Safety Data Sheet.