



High Friction &
Coloured Surfacing



HITEX
International Group
Road Surface Innovation

Hitex Type 1

Thermoplastic Type 1 High Friction
Surfacing Material



Type 1 high friction surfacing is proven to reduce accidents and save lives by reducing braking distance and improving vehicle control. The system dramatically improves skid resistance in both wet and dry conditions.

Product specification and technical data



Hitex Type 1

BBA/HAPAS Approved EcoGrip Type 1 comprises a two-component, modified epoxy binder and 100% road grade calcined bauxite.

Type 1 high friction or anti-skid surfacing is one of the most effective road safety surfacing measures used to reduce accidents and save lives. Over the past five decades, there has been significant reported declines in skid-related cases following the installation of the system, saving countless lives.

Why Hitex Type 1?

- Suitable for old and brand new asphaltic surfaces
- Rapid curing, typically 15-30 minutes
- Can be laid all year round
- Can regulate existing surface defects such as wheel ruts
- Long term SCRIM/SRV levels improve through wear

Typical uses

Hitex Type 1 is suitable for all classes of road where the highest levels of skid resistance are required. It is particularly suitable for use on asphaltic surfaces with texture depths of between 0.5mm and 2.0mm. Hitex Type 1 is used to improve safety in such locations as:

- Highly trafficked, high stress areas
- Sharp bends, junctions and motorway slip roads
- Roundabout and pedestrian crossing approaches
- Accident black spots

Compliances/Approvals

Hitex Type 1 is a BBA/HAPAS Approved product. Hitex Type 1 system must only be installed by BBA-Approved operatives.

The management system of Hitex Traffic Safety Ltd has been assessed and registered as meeting the requirements of BS EN ISO 9001 and BS EN ISO 14001.

Colour

The natural colour of the aggregate component dictates the overall colour of the finished surfacing product. Hitex Type 1 is available in natural buff or dark (grey).

The finished product can be pigmented if required, however it is important to appreciate that with heavy wear, the natural colour of the aggregate will show through.

Application method

Please refer to the relevant Installation Method Statement.

Technical data

Table 1 Physical properties

Relative density	2.00 ± 0.1 g/cm ³
Installation - road temperature range	0-35 °C
Material application temperature	190 ± 10 °C
Maximum safe heating temperature	230 °C
Setting time	Typically 15-20 mins

Table 2 Binder specification

Property	Test method	Specification
Softening point °C	BS 2000 Part 58:1988	100 ± 5 °C
Flow resistance	BS 2499 Part 3: 1993 (Mod.)	No flow
Flexibility	ASTM D3583 (Mod.)	No surface cracking or crazing

Table 3 Aggregate

Hitex Type 1 Buff/ Dark uses 100% calcined bauxite aggregate. BBA/HAPAS certificate is based on use of a graded nominal 1-3mm calcined bauxite aggregate. Any deviation from this will compromise performance and invalidate the Type 1 certification.

Property	Typical value
Polished Stone Value (PSV)	70+
Aggregate Abrasion Value (AAV)	4
Gradation passing 3.35 mm	95 %
Gradation passing 1.18 mm	5 %

Table 4 Material performance

The properties of the installed product are designed to conform to the requirements below:

Property	Typical value	BBA/HAPAS Type 1 specification
Skid Resistance Value (SRV)	75+	≥ 65
Initial texture depth	1.6	≥ 1.4 mm
Tensile adhesion @ 20 °C	1.0 N/mm ²	≥ 0.5 N/mm ²
Spread rates	80 - 90m ² per Tonne (11.00-12.5 kg/m ²)	

Packaging & storage

Hitex Type 1 is supplied in meltable polyethylene bags of approximately 25kg each. They are packed onto pallets of 50 bags, and supplied in lots of approximately 1.25 tonne per pallet. Finished pallets are shrouded and stretch-wrapped for protection.

It is recommended that Hitex Type 1 product should be kept totally dry and stored away from direct sunlight and areas of potential contamination.

Health & Safety

For further information consult the relevant Safety Data Sheet (SDS).

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 COSHH assessment.

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