



High Friction &
Coloured Surfacing



HITEX
International Group
Road Surface Innovation



EcoGrip Type 1

Thermosetting 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



EcoGrip 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 EcoGrip Type 1?

- Suitable for old and brand new asphaltic surfaces
- Low odour, low toxicity binder system
- Tough and durable with a long service life
- Fast installation- can be laid directly onto suitable existing surface

Typical uses

EcoGrip Type 1 is suitable for all roads 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 2mm. EcoGrip 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

EcoGrip Type 1 is a BBA/HAPAS Approved product. EcoGrip 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 calcined bauxite aggregate dictates the overall colour of the finished surface. EcoGrip 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.

EcoGrip binder is a light golden colour, and can be pigmented to match a colour-coated bauxite if a more intense colour finish is required.

Application method

Please refer to the relevant Installation Method Statement.

Technical data

Table 1 Physical properties

Specific gravity - Part A	1.15 ± 0.05
Specific gravity - Part B	1.00 ± 0.05
Pot life @ 23°C	30 mins
Curing time @ 20°C	2-3 hours
Road surface temperature range	5-40 °C

Table 2 Aggregate

EcoGrip 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 will invalidate the Type 1 certification.

Property	Requirement
Polished Stone Value (PSV)	70 +
Aggregate Abrasion Value (AAV)	max. 4
Gradation passing 3.35 mm	min. 95%
Gradation passing 1.18 mm	max. 5%

Table 3 Material performance

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

Parameter	Typical value	BBA/HAPAS Type 1 specification
Skid Resistance Value (SRV)	75 +	≥ 65
Initial texture depth	2.0 mm	≥ 1.4 mm
Tensile adhesion @ 20°C	1.6 N/mm ²	≥ 0.5 N/mm ²

Table 4 Spread rates

Aggregate	Approximately 8-10 kg/ m ² using a 1-3mm stone
Binder	2 kg/m ² on smooth substrates, more on rough or open textures.

Packaging & storage

EcoGrip binder is supplied in pre-weighed 20kg pails, 180kg drums or 1000kg IBCs.

Calcined bauxite aggregate is supplied in 25kg or 1250kg sacks. It is recommended that EcoGrip 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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