



High Friction &
Coloured Surfacing



HITEX
International Group
Road Surface Innovation



VeloGrip

Resin Bonded Coloured Surfacing for Cycle Routes

VeloGrip is a surfacing system designed to improve the safety and comfort of the cyclist. The system incorporates fine aggregates to provide excellent skid resistance in all conditions, without the sharp, abrasive texture of other high friction surfacing.

Product specification and technical data



VeloGrip consists of Hitex BBA/HAPAS EcoGrip Approved two-component thermosetting modified epoxy binder dressed with selected fine aggregates which are pigmented in bold colours.

The skid-resistant surface enhances the safety of the cyclist by improving braking distances through increased surface friction, and by providing coloured demarcation of cycle-only areas. VeloGrip is quick and easy to apply, and is tough and durable to give a long service life.

Why VeloGrip?

- Extremely tough and durable surface; achieves the highest degree of erosion resistance during BBA scuffing tests
- High friction performance without the abrasive texture of conventional high friction surfacing
- User-friendly odourless, low toxicity binder system
- Low energy cold-applied installation

Typical uses

VeloGrip has been engineered for use on cycle paths, in particular the demarcation of city cycle schemes, however its decorative and anti-skid qualities also make it suitable for walkways, coloured parking bays and wheelchair ramps.

Compliances/Approvals

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. VeloGrip utilises Hitex EcoGrip BBA/HAPAS Approved binder system.

Colour

VeloGrip aggregate is available in standard colours of red, blue, green and yellow. Bespoke colours are available on request. VeloGrip binder system is naturally a pale straw colour, but can be pigmented to match the aggregate to intensify the colour of the finished application.

Application method

Please consult 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	3 hours
Road surface temperature range	5-40 °C

Table 2 Binder

Property	Test method	Requirement
Tensile strength	ISO 527-2:2012 (Mod.)	≥ 10.5N/mm ²
Elongation	ISO 527-2:2012 (Mod.)	≥ 25%

Table 3 Aggregate

VeloGrip should be dressed with Hitex coated aggregate. The aggregate particle size shall not exceed 2mm. Figures given below are typical values only.

Aggregate	1mm dark bauxite	0.5-1mm flint	sand
Polished Stone Value (PSV)	70	68	n/a
Aggregate Abrasion Value (AAV)	4	0.4	n/a
Gradation passing 1.18 mm	35	90	94
Gradation passing 0.6 mm	1	2	3

Table 4 Material performance

The properties of the installed product are designed to conform to the requirements below. Figures will vary according to aggregate used.

Parameter	Typical value	Requirement
Skid Resistance Value (SRV)	75 minimum	≥ 70
Texture depth	1.8 mm	≥ 1.0 mm
Scuffing erosion index	0.0	≤ 3.0
Texture depth after scuffing	1.3 mm	≥ 0.8 mm
Tensile adhesion	1.6 N/mm ²	≥ 0.5 N/mm ²

Table 5 Spread rates

Spread rates - binder	1.5 kg/m ² on smooth substrates (increases for rough/open textures)
Spread rates - aggregate	Approx. 5-6 kg/ m ²

Packaging & storage

VeloGrip binder is supplied in pre-weighed 20kg pails, 180kg drums or 1000kg IBCs. VeloGrip fine aggregates are supplied in 25kg sacks or 1250kg bulk bags. It is recommended that Hitex products 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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