

Product Name: ColdGrip

Colour: Natural and pigmented aggregate

Binder Type: Resin

Version: 2019.10

Type: 1

Certificate:



Intended Usage:

Coldgrip is a range of cold-applied thermoset resin road surfacing systems which provides high friction (skid-resistance) and/or colour demarcation. High friction properties are achieved and maintained throughout the service life of Coldgrip by scattering calcined bauxite aggregates onto wet resin binder. By providing high friction contact with vehicle tyres, braking is achieved more effectively, with less risk of skidding and loss of control. High friction and colour demarcation is achieved by using pigmented Coldgrip resin binder together with Colourgrip colour coated aggregates.

For areas such as road carriageways, intersections, junctions, pedestrian crossings, roundabouts, traffic lights, sharp or adverse cambers on bends and any other potentially hazardous road surfaces.

Technical Specification:

Specific Gravity SG (mixed Resin)	1.0kg/l
Pot Life @ 20°C (approximate)	20 mins
Initial Set @ 20°C	1 hour
Open to traffic @ 20°C	2 hours
Tensile Strength @ 23°C min.	10 N/mm2
Elongation at Break @ 23°C min.	80%
Tensile Adhesion @ 20°C (typical)	2.5 N/mm2
Skid Resistance Value (SRV) *	>80*
Specific Gravity (mixed resin)	1.0

*Using traffic grade calcined bauxite aggregate

PSV Value:

Typical Values - UK sourced	PSV
Red Granite/Basalt	55-58
Green Granite/Basalt	63
Dark Green Granite/Basalt	61
Black Basalt	55-60
Silver Grey Granite	48-55

Spread rate:

The formula for calculating the spread rate can be simplified as follows: $(TD + FT) \times SG =$ Weight of material required per m² where: TD = substrate texture depth in mm, FT = required film thickness in mm and SG = specific gravity of the mixed resin system.

At a required film thickness of 1.2mm, the following table below estimates the approximate quantities needed.

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Texture Depth in mm: Quantity of Coldgrip Required in Kg/m ²	Spread Rate:
0.0	1.2
0.5	1.7
1.0	2.2
1.5	2.6
2.0	3.1
2.5	3.6
3.0	4.1

Colours:

Coldgrip resin can be coloured with the addition of a pigment pack. Red, Green, Black, Buff High performance anti-skid surfacing is installed using either natural calcined Bauxite or the colour-coated variant supplied as Colourgrip. Where long-term colour retention is a high priority naturally coloured aggregates may be utilised. See separate Colourgrip Product Information sheet.

Surface Preparation and Application Recommendations:

The following brief outline is for guidance only.

Allow 28 days prior to applying Coldgrip to new asphalt.

Coldgrip must be applied to surfaces which are clean and dry. Time should be allocated to adequately prepare the substrate prior to the application of Coldgrip. Edges, drain covers etc. should be masked. The substrate must be sound, as Coldgrip does not provide any structural strength. Repairs should be carried out in advance to ensure an even surface prior to the installation of Coldgrip. The surface should be pre-primed with a primer where necessary.

Mixing is carried out using a drill and paddle. The mix is spread over the application area using a squeegee. Allow the resin to self-level for a few minutes and then broadcast the aggregates on to the wet film until the surface is fully blinded. Whilst curing, any masking tape should be removed. The completed surface should be allowed to cure before sweeping off excess aggregate which can be re-used if clean and dry. The surface is now ready for use.

Aftercare:

Aftercare is not normally necessary. However, loose detritus can be removed by pressure washing, ensuring that the nozzle is held more than 15cm away from the surface. Oil staining can be treated with a stiff brush and a hard surface detergent. This should be flushed away with clean water.

Packaging:

Coldgrip is supplied in 2-part sealed containers - Part A and Part B. These may be plastic or metal containers depending on the variant selected. Pigment paste is supplied in small plastic sealed containers.

Storage, Handling and Safety:

Store under cover, in cool, dry, well ventilated conditions. Keep containers closed until use. Shelf life is 12 months when stored in the correct conditions. See separate Safety Data Sheet.

Accreditations and certifications:

Coldgrip BBA is BBA/HAPAS (British Board of Agreement/Highway Authorities Product Approval Scheme) approved. Geveko Markings is ISO 9001 and ISO 14001 certified