



Description

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

High friction and color demarcation is achieved by using pigmented Coldgrip together with Colorgrip color coated aggregates. Coldgrip BBA is BBA/HAPAS (British Board of Agrèment/Highway Authorities Product Approval Scheme) approved as a Type 1 system, the highest classification available. This is subject to the scheme guidelines and specific requirements within the BBA certificate.

Where high friction is required, Coldgrip can be used on areas such as road carriageways, intersections, junctions, pedestrian crossings, traffic lights, sharp or adverse cambers on bends, car park ramps and any other potentially hazardous road surfaces.

Technical

	Coldgrip	Coldgrip BBA	Coldgrip Export
Specific Gravity SG (mixed Resin)	1.5kg/l	1.0kg/l	1.0kg/l
Pot Life @ 20°C (approximate)	30 mins	20 mins	20 mins
Initial Set @ 20°C	1 hour	1 hour	1 hour
Open to traffic @ 20°C	2 hours	2 hours	2 hours
Tensile Strength @ 23°C min.	10.5 N/mm ²	10 N/mm ²	10N/mm ²
Elongation at Break @ 23°C min.	60%	80%	80%
Tensile Adhesion @ 20°C (typical)	2.5 N/mm ²	2.5 N/mm ²	2.5 N/mm ²
Skid Resistance Value (SRV) *	>80*	>80*	>80*

*Using traffic grade calcined bauxite aggregate

PSV Values

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 Rates

The formula for calculating the spread rate can be simplified as follows: $(TD + FT) \times SG = \text{Weight of material required per m}^2$ 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 table below estimates the approximate quantities needed.

Spread Rates	Coldgrip	Coldgrip BBA	Coldgrip Export
Specific Gravity (mixed resin)	1.5	1.0	1.0
Texture Depth in mm			
Quantity of Coldgrip Required in Kg/m ²			
0.0	1.8	1.2	1.2
0.5	2.5	1.7	1.7
1.0	3.3	2.2	2.2
1.5	4.0	2.6	2.6
2.0	4.8	3.1	3.1
2.5	5.5	3.6	3.6
3.0	6.3	4.1	4.1

Colors

Coldgrip resin can be colored 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 color coated variant supplied as Colorgrip. Where long-term color retention is a high priority naturally colored aggregates may be utilised.



Surface Preparation

For more in-depth product application information and techniques, please refer to the Coldgrip Method Statement. 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 Primer C where necessary.

Application

Mixing is carried out using a drill and paddle. The mix is then 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 the 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 and Storage

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

Health and Safety

See separate Safety Data Sheet

