



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Epigrip Data Sheet

Specification notes

Product: **Epigrip**

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Epigrip



Safety Flooring System

Description

A two component resin extended epoxy high build coating characterised by its inbuilt flexibility, excellent adhesion and resistance to water and a wide range of chemicals. Epigrip provides a heavy duty slip resistant flooring system by the incorporation of an aggregate into the wet film, which will last for many years in both internal and external situations.

Advantages

- No primer required.
- Excellent bond strength.
- Good chemical and abrasion resistance.
- Inbuilt flexibility.
- Manufactured under BSI QA Scheme, ISO 9001, EN 29001.

Applications

- Upgrading of concrete floor to industrial grade floor, suitable for vehicular and forklift traffic.

Technical Information

Colour	Black
Mixing Ratio	Only full packs
Pot Life @ 20°C	40 minutes
Pot Life @ 7°C	2 hours +
Foot traffic	Min 4 hours @ 20°C
Light traffic	Min 12 hours @ 20°C
Full Traffic	Min 16 hours @ 20°C
S.G. @ 20°C	1.43
Minimum Application Temp	7°C
Coverage (approx.)	4m ² per 5kg unit (not including aggregate)

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EN 1504-2
Surface Protection System

Abrasion resistance	≤3000mg
Capillary absorption and permeability to water	<0.1 kg/m ² /hr ^{0.5}
Adhesive bond strength	≥ 1.5 MPa
Dangerous substances	Complies with 5.4

Surface Preparation

All surfaces should be clean, dry, free from oil, grease and chemical contamination. Oil and grease can be removed using Desolve. Concrete surfaces should be free from laitance which should be removed by either scarifying, wire brushing or preferably by high pressure water or sand blasting. Blow holes or other surface irregularities should be repaired using Nupatch Cosmetic or Epicon Fast Set Mortar. Concrete surfaces should be at least 21 days old. Should the strength or the surface stability of the concrete base be in doubt, then we recommend a trial patch of Epigrip be applied to assess its suitability.

It is recommended that concrete substrates should not have a moisture content of more than 75% RH. This can be assessed using a hair hygrometer covered with polythene for 24 hours as recommended by BS 8203.

Technical properties of Epigrip.

Properties	Standard	Performance Requirement	Declared Value
Appearance			Black Resin
Chloride-ion content	EN1015-17	$\leq 0.05\%$	$\leq 0.05\%$
Layer thickness minimum			1 mm
Specific Gravity			1.43
Working time			40 Minutes
Temperature for application			7°C to 30°C
Tensile strength	BS 6319-7		3.3 MPa
Adhesion - concrete	EN1542	≥ 1.5 MPa	> 2.0 MPa
Adhesion after freeze/thaw (50 cycles with salt)	EN13687-1	≥ 1.5 MPa	> 2.0 MPa
Adhesion after thunder showers (30 cycles)	EN13687-2	≥ 1.5 MPa	> 2.0 MPa
Adhesion after dry cycling (30 cycles)	EN13687-4	≥ 1.5 MPa	> 2.0 MPa
Abrasion resistance	EN ISO 5470-1	≤ 3000 mg	<3000mg
Skid resistance	EN13036-4		Class 3
Carbonation resistance	EN13295	$d_k \leq$ ref. concrete	Passes
Capillary absorption	EN13057	≤ 0.1 kg/m ² /Hr ^{0.5}	≤ 0.1 kg/m ² /Hr ^{0.5}

Technical data shown are statistical results and do not correspond to guaranteed minima.

Tolerances are those described in appropriate performance standards.

1 N/mm² = 1 MPa

1 kN/mm² = 1 GPa



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Priming

Priming is not normally required, however when applying to damp/new concrete the use of *Epicon DSP* is recommended. This is used as per the *Epicon DSP* technical data sheet.

Mixing

The entire contents of the hardener tin should be added to the base tin and slowly stirred until thoroughly mixed, preferably using a suitable paddle and drill. Take care not to entrain air into the mix.

Application Instructions

Check Limitations before application.

Apply the Epigrip to the prepared surface using a serrated float or squeegee. The material should be applied at a thickness of approximately 1mm (i.e. 5 kg unit will cover 4 m²). While the Epigrip is still wet the surface should be broadcast with one of our range of non-slip aggregates at a rate to give the desired non-slip characteristics. All equipment should be cleaned with Nuwash immediately after use.

Application Instructions as a combined waterproof - slip resistant membrane

Apply the first coat of Epigrip resin membrane at 1mm thick, allow to cure for approximately 4-6 hours.

Apply the second coat of Epigrip resin membrane and broadcast with slip resistant aggregate and allow to cure.

Application Instructions to Steel

Ensure the surface is prepared by grit blasting. The surface must be dry and free from any contaminants as per surface preparation.

Apply a primer coat of mixed Epicon DSP ensuring it is evenly spread without leaving pinholes. Apply the mixed Epigrip after approximately 16 to 48 hours whilst the surface is still tacky.

Packaging

Epigrip is available in 5 kg units. Larger units are available upon request.

Slip Resistant Aggregate is available in 25 kg units.

Storage

Epigrip should be stored at normal room temperatures. If stored in cold conditions the containers should be warmed prior to mixing. This will greatly aid the mixing and application procedure. Epigrip should be stored away from foodstuffs and out of the reach of children

Limitations

Do not apply at temperatures below 7°C. Application below 7°C can cause poor bond to the substrate. It is recommended that concrete substrates should not have a moisture content of more than 75% RH. Do not apply when rain is due as it may cause softening and discolouration of the surface.

Epigrip can be applied to timber but we recommend the application is discussed with our Technical Department before approval.

Health & Safety

Epigrip, as with similar products, is capable of irritating unprotected sensitive skin, we therefore recommend the use of gloves and a barrier cream.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available to provide further information and arrange demonstrations.



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