Technical Data Sheet

ArmourGrip®

The toughest non slip coating



Watco ArmourGrip is a unique formulation which offers significant advantages over conventional anti slip paint coatings. It would take many years of constant heavy traffic for signs of wear to show. This is achieved using a heavy duty, high build epoxy resin coating topped with Iron Silicate grit which forms the wearing surface. This aggregate is so hard (7.5 on the Mohs mineral hardness scale) that it will not wear away like a paint coating. The attractive, mid gloss aggregate will take constant heavy traffic making it ideal for heavily used aisleways, ramps or loading bays where a safe, non-slip surface is required. Little or no maintenance is an advantage in constantly busy areas where downtime is difficult.
It can be used inside and outside on slippery ramps, paths, vehicle turning areas etc. It is highly versatile and can be applied to concrete, metal or wood; usually without any need for a primer. The 'cold weather' formulation allows for essential safety and maintenance work to be undertaken at temperatures as low as 5°C.

Areas of use:

- Heavily trafficked floors
- Loading bays
- Ramps
- Any surface where slip resistance is paramount

Features:

- Unique, ultra-durable wearing surface
- Low maintenance – will last for years
- Utilises waste material
- Attractive black, mid gloss finish
- Will not wear through like a conventional paint coating
- Fast, one coat application
- Can be used at temperatures as low as 5°C
- Heavy duty, 100% solids epoxy resin formulation

Colours

Black

Samples are available on request.
While great care is taken with the colour samples shown, no guarantee can be given that they represent exactly the colours offered.

Need help? Speak to the experts

Our dedicated and professional team are here to help you get the best results for your project.
They will talk you through the preparation and application stages when using **ArmourGrip.**

Call our expert team on: 01483 418 418 (Weekdays 8:00am - 5:30pm. Saturday 9:00am - 12:00pm)

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1 Surface Preparation

Bare Concrete – remove surface laitance, dust and any light dirt or grease deposits using Watco Etch & Clean. Watco Etch & Clean also etches smooth, bare concrete surfaces to provide a key. Flush with clean water and allow surface to dry. For the removal of heavier deposits of oil and grease we recommend Watco Concroff. Again, flush with clean water and allow the surface to dry.
New Concrete – as a guide, new concrete should be left for eight weeks to dry (if the application has to go ahead before this, use Watco New Concrete Primer). The surface should then be prepared using Watco Etch & Clean and thoroughly rinsed away and left to dry prior to applying this coating.
Painted surfaces – abrade to remove any weak or loose paint. Check remaining paint is well bonded. Very smooth, glossy paint should be lightly abraded to provide a key. Watco Bio D can be used to remove
grease and oil from painted surfaces. Watco Concroff is a very powerful degreaser for contaminated bare concrete (do not use on a previously painted surface since it can soften paint).
Priming – Not required for normal, porous concrete finishes. If applying to hard, smooth, power floated concrete, use Watco Powerfloat Primer.
Metal – remove any rust and flaking material by disc grinding or wire brushing. Apply the coating immediately after preparation to the clean metal surface. Grease or oil can be removed using Watco Bio-D. Allow the metal to dry before coating.
Galvanised Metal – Watco Galvaprime must be used to prepare galvanised metal.
Non-ferrous Metals - for advice, please contact our Technical Department.

2 Mixing

Remove the two inner tins from the tall outer tin. Stir the contents of each tin thoroughly and pour all of the contents into the outer tin (scrape around the inside of the tins to remove any residue). Mix the components together thoroughly using a spatula or similar wide bladed tool (a piece of wooden batten is ideal) and do not thin. Continue mixing until an even colour and consistency are obtained. Do not mix more than one pack at a time. If a paint stirrer fitted to an electric drill is used, also use the spatula to blend in any unmixed material from the sides and bottom of the tin.
Important: A chemical reaction takes place which creates heat. Therefore, the product should be decanted into a plastic tray/ scuttle to avoid reducing the pot life and used straight away.

3 Application

The black coating is to be applied to the substrate and the grit scattered onto the wet surface. The 4L of black coating should be applied to a total maximum area of 10m^2. We recommend working in 1m wide strips, starting at the 'back' of the area and working backwards towards the entrance.
Apply a 1m wide strip of coating using a medium pile roller, cutting in around the edges with a brush. Immediately scatter the grit into the wet coating. Aim for complete coverage (there is plenty of grit) until none of the coating can be seen. Use a clean, dry roller to roll over the top of the grit bedding it down into the wet coating. It does not matter if there appears to be too much grit. Repeat the process on the next 1m side strip.
After the coating has cured (sufficiently to take light traffic (see curing times on P.3), use a stiff broom to sweep away loose, excess grit.

4 Safety

Material Safety Data Sheets are available.

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Specification

Composition	High build, 100% solids epoxy resin, topped with Iron Silicate grit.
Number of Components	1 x Black Resin, 1 x Clear Curing Agent, 1 x 25kg unit of Black Iron Silicate grit.
Finish	Black, semi-gloss, textured grit surface.
Primer Required	See 'Surface preparation' on P.2.
Number of Coats	1
Wet & Dry Film Thickness	400 microns - >600 microns (inc grit additive).
Slip Resistance	Dry: 77.8 PTV. Wet: 72.6 PTV.
Usage Interior/ Exterior	Interior & exterior.
Application Tools	Medium pile roller plus spare sleeve. Cut in using a brush.
Minimum Application Temperature	Floor temperature 5°C. Air temperature 10°C.
Curing time (at 10°C)	16 hours.
Suitable For	Concrete, some metals, wood, well bonded paint.
Pack Size	4L of resin and curing agent, 25kg of Iron Silicate grit.
Shelf Life	24 months in unopened container.
Coverage	Approximately 10m² per coat per 4 litre unit.
Cleaning Tools	It is not practical to clean applicators and they should be discarded after use.
Pot Life	20 minutes at 20°C, 30 minutes at 10°C.
Cleaning	Normal industrial cleaners. Do not steam clean or subject to temperatures in excess of 60°C.
Storage	Between 15°C - 25°C for at least 8 hours prior to use.
Principle Limitations Please contact us regarding applications not described here.	Not suitable for use on aluminium, stainless steel or chequer plate. Most self-levelling screeds cannot be painted – please ask for details. Unsuitable for asphalt or damp surfaces. Textured ' gritty' surfaces can make cleaning difficult in clean room areas.

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