Technical Data Sheet

Powerfloat Primer
Powerfloat Primer Rapid

An epoxy resin primer for smooth surfaces

Watco Powerfloat Primer is a virtually solvent free, two part, water based, epoxy resin primer designed for application to smooth, non-porous surfaces which are prone to rejecting paint. The traditional way of preparing a power floated or polished concrete floor is by means of mechanical preparation, such as shot blasting. Shot blasting can be expensive and can texture the surface leaving 'tram line' marks. One coat of Watco Powerfloat Primer eliminates the need for this mechanical preparation, and so retains the attractive smooth power floated finish.

Powerfloat Primer (available in Grey or Clear) - Powerfloat Primer can be over coated with most Watco coatings within 12 hours (based on a temperature of 20°C). If the intention is to overcoat Powerfloat Primer with a solvent based floor coating, such as Watco Concrete Floor Paint, it should be left for 5 days to thoroughly cure. We always recommend using Powerfloat Primer in the standard grey finish when using a coloured floor coating and the clear version of Powerfloat Primer Rapid when applying a clear floor sealer such as Watco Protecta-Coat. If more than 5 days elapse after using the primer before applying the top coat, it should be lightly abraded to provide a key.

Powerfloat Primer Rapid (available in Grey only) - is a fast drying formulation which allows the floor to be over coated with a water based coating within just 4-6 hours (based on a temperature of 20°C) which enables the area to be put back into use as quickly as possible. When using a non water based coating, it's essential that Powerfloat Primer Rapid is allowed to thoroughly dry so that all the water contained in the primer has escaped. Therefore, we recommend leaving the primer for 8 hours before applying a non water based Watco coating, such as Watco Fastcoat (polyaspartic resin) or Watco Epoxicote High Build (100% solids epoxy) or 5 days for a solvent based coating, such as Watco Concrete Floor Paint. If more than 5 days elapse after using Powerfloat Primer Rapid before applying the top coat, the primer should be lightly abraded to provide a key. Both Powerfloat Primer and Powerfloat Primer Rapid have impressive test results for adhesion, abrasion and impact resistance as well as for flexibility. They are also breathable and have an A+ VOC emissions rating with a low level of VOC.

Please note: Whilst Powerfloat Primer avoids the use of mechanical preparation, diamond grinding or shot blasting does provide a better finish overall and is recommended. For smaller areas where mechanical abrasion is difficult Powerfloat Primer is a great back-up option.

Areas of use:

- Priming power floated, very smooth or non-porous concrete floors which are prone to rejecting paint

Features:

- Primes hard, smooth surfaces ready for painting
- Eliminates the need for costly shot blasting or grinding
- One coat application - quick and easy to apply
- Grey or clear options available
- Ready for overcoating in 12 hours, or 4 - 6 for the rapid version
- Low odour
- Superior performance demonstrated by ISO testing

Colours

Clear

Grey*

*Powerfloat Primer Rapid available in Grey only.

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 **Powerfloat Primer.**

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 – if surface laitance is present, remove by using Watco Etch & Clean. Flush with clean water and allow the surface to dry. If residual damp remains this is acceptable as Powerfloat Primer and Powerfloat Primer Rapid are breathable.
New concrete – should be left for four weeks to dry in the summer and six in the winter. Should surface laitance be present, prepare the floor using Watco Etch & Clean. Flush with clean water and allow the surface to dry.

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). 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.

3 Application

Best results are obtained in warm (minimum 15°C), dry conditions with good ventilation. Apply with a medium pile roller, working well into the surface of the concrete. Do not exceed the maximum coverage of 30m^2 per 5 litre pack, per coat.

4 Safety

Material Safety Data Sheets are available.

5 Ordering

Available direct from Watco UK Limited and through agents worldwide. All Watco products are sold subject to the Company's Standard Conditions of Sale.
The Company and its representatives are often asked to comment on potential uses of Watco products which differ from those described in the Company's data sheets. Whilst in such cases the Company and its representatives will always try to offer helpful and constructive advice, the Company cannot be held responsible for the results of such uses unless they are specifically confirmed in writing by Watco.

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Powerfloat Primer
Powerfloat Primer Rapid

Specification

Composition	Water based epoxy resin.
Number of Components	1 x curing agent, 1 x resin.
Finish	Powerfloat Primer is available in a smooth, matt grey finish or clear. Clear appears milky until it dries. Rapid is available in matt grey only.
Number of Coats	1
Dry Film Thickness	120microns.
Wet Film Thickness	160 microns.
Usage Interior/Exterior	Interior
Application Tools	Medium pile roller. Cut in using a brush.
Minimum Application Temperature	Air temperature 15°C. Floor temperature 10°C.
Suitable For	Bricks, blockwork, concrete, sand and cement. The moisture content of concrete should be less than 75% RH.
Pack Size	5L
Coverage	30m² per SL.
Pot Life	Up to 2 hours at 20°C.
Mix Ratio (by weight)	Powerfloat Primer Grey - 100 parts Curing Agent : 19.5 parts resin. Powerfloat Primer Rapid Grey - 100 parts Curing Agent: 100 parts resin. Powerfloat Primer Rapid Clear - 100 parts Curing Agent : 150 parts resin.
Cleaning Tools	Warm soapy water.
Shelf Life	24 months in unopened containers.
Storage	Between 15°C-25°C for at least 8 hours prior to use. Do not allow to freeze.
Principle Limitations Please contact us regarding applications not described here.	Unsuitable for bare metal. Most self-levelling compounds cannot be painted - please ask for details. Highly polished surfaces may require mechanical abrasion before coating, contact us for details

CURING TIME

	Powerfloat Primer Touch Dry	Powerfloat Primer Rapid Touch Dry
10°C	12 hours	8 hours
20°C	6 hours	4 hours

Please refer to the sections Powerfloat Primer and Powerfloat Primer Rapid for over coat times.

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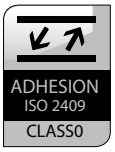
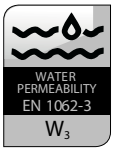
watco®

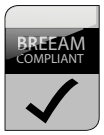
Powerfloat Primer & Powerfloat Primer Rapid

Test Results

Powerfloat Primer 	**Abrasion Resistance ISO 5470-1** Taber test method expresses results in mg on a scale between 0mg (highest resistance) and 3000mg (lowest). A reading below 3000mg is a CE mark pass.	3000mg → 0mg Lowest → Highest	**Powerfloat Primer Rapid** 	**Abrasion Resistance ISO 5470-1** Taber test method expresses results in mg on a scale between 0mg (highest resistance) and 3000mg (lowest). A reading below 3000mg is a CE mark pass.	3000mg → 0mg Lowest → Highest
Powerfloat Primer 	**Adhesion Test EN 1542** Adhesion is expressed in MegaPascals(MPa or Newton millimetres squared(Nmm2). Greater than 2 MPa is a CE mark pass.	>2MPa (Nmm²) = test pass	**Powerfloat Primer Rapid** 	**Adhesion Test EN 1542** Adhesion is expressed in MegaPascals(MPa or Newton millimetres squared(Nmm2). Greater than 2 MPa is a CE mark pass.	>2MPa (Nmm²) = test pass
Powerfloat Primer & Rapid 	**Impact Resistance ISO 6272** Impact is expressed as Newton metres. Greater than 4 Nm is a CE mark pass.	Class 1 >4Nm Class 2 >10Nm Class 3 >20Nm	**Powerfloat Primer & Rapid** 	**Flexibility ISO 1519** Flexibility is measured using a Mandral Flex Tester, 2mm is the most flexible, 36mm the least.	36mm → 2mm Lowest → Highest
Powerfloat Primer & Rapid 	**Adhesion Test ISO 2409** Cross-Cut Test method. Class 0 is highest adhesion, Class 5 is lowest.	Class: 5 → 4 → 3 → 2 → 1 → 0 Lowest → Highest	**Powerfloat Primer & Rapid** 	**Water Permeability EN 1062-3** To achieve a CE mark, the measurement must be less than 0.1 kg/m2(24 h)0.5	CE Marking Critical Value: < 0.1kg/m²/(24 h)0.5 W_1 → W_2 → W_3 Lowest → Highest

Standard Compliance

BREEAM COMPLIANT (for refurbisment)



VOC LEVEL

VOC LEVEL

ISO 16000
The 'Loi Grenelle' measurement of the effect of a product's VOC level within a building.
A+ is the top safety rating.

REACH COMPLIANT

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