

4-HOUR EPOXY PRIMER



AREAS OF USE

- Priming bare, porous or open textured surfaces prior to applying a high build floor finish.

FEATURES

- Ready to be over coated in only 4 hours
- Virtually solvent free two pack epoxy resin – safe for use in confined areas
- Binds weak and friable surfaces

- 100% solids epoxy offers major benefits over traditional water based primers – highly penetrative, exceptional binding and strengthening properties and rapid curing

DESCRIPTION

Watco 4-Hour Epoxy Primer prevents 'air entrapment' bubbles forming when high build coatings are applied to open textured surfaces. It is a highly penetrative, two pack, virtually solvent free primer, especially designed to reduce the porosity of bare, porous or open textured concrete and high suction floors.

Watco 4-Hour Epoxy Primer also binds together and strengthens weak and friable surfaces ready for painting and it offers significant benefits over traditional water based primers; not only because of its exceptional binding properties but also how deeply it penetrates into the substrate and how rapidly it cures. This rapid curing, high performance formulation allows the floor to be primed and coated in the same day.

SPECIFICATION

Composition	Virtually solvent free, high solids epoxy resin.	Pot Life	Up to 20 minutes at 20°C.
Number of Components	1 x curing agent and 1 x resin.	Mix Ratio (by weight)	100 parts resin : 50 parts curing agent.
Finish	Clear (it may have a slight darkening effect on some substrates).	Cleaning Tools	It is not practical to clean applicators and they should be discarded after use.
Number of Coats	1	Shelf Life	24 months in unopened container.
Dry Film Thickness	250 microns.	Storage	Between 15°C-25°C for at least 8 hours prior to use. Do not allow to freeze.
Wet Film Thickness	250 microns.	Principle Limitations	Do not apply to a damp surface since 4-Hour Epoxy Primer relies upon penetration. 4-Hour Epoxy Primer is intended for use prior to applying a high build coating. If the top coating is anything other than high build, please contact us for further advice.
Usage Interior/ Exterior	Interior.	Please contact us regarding applications not described here.	
Application Tools	Medium pile roller. Cut in using a brush.		
Minimum Application Temperature	Air temperature 15°C Floor temperature 10°C		
Suitable For	Porous, bare, concrete, sand & cement screeds, bricks and blockwork. The moisture content of concrete should be less than 75% RH.		
Pack Size	5L		
Coverage	Coverage is difficult to state accurately for this product as it has low viscosity, is highly penetrative and the substrate to which it is being applied will vary in porosity. As an approximate guide the following may be helpful: Smooth concrete – 20m ² per 5 litres. Acid etched concrete – 15m ² per 5 litres. Shot blasted/open textured concrete – 12.5m ² per 5 litres.		

COLOURS

Clear

Samples are available on request.

TEST RESULTS



**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



**Flexibility
ISO 1519**
Flexibility is measured using a Mandral Flex Tester, 2mm is the most flexible, 36mm the least.

36mm → 2mm
Lowest → Highest



**Adhesion Test
EN 1542**
Adhesion is expressed in MegaPascals (MPa) or Newton millimetres squared (Nmm²). Greater than 2 MPa is a CE mark pass.

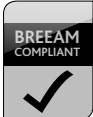
>2MPa (Nmm²)
= test pass



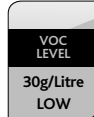
**Water Permeability
EN 1062-3**
To achieve a CE mark, the measurement must be less than 0.1 kg/m²(24 h)^{0.5}

CE Marking
Critical Value:
< 0.1kg/m²/(24 h)^{0.5}
W₁ → W₂ → W₃
Lowest → Highest

STANDARD COMPLIANCE



**BREEAM
COMPLIANT**



**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**

SURFACE PREPARATION

Bare concrete – remove surface laitance, dust and any light dirt or grease deposits using Watco Etch & Clean. Flush with clean water and allow the surface to dry thoroughly and for as long as possible to allow Watco 4-Hour Epoxy Primer to penetrate. 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 thoroughly.

New concrete – as a guide, new concrete should be left for eight weeks to dry. The surface should then be prepared using Watco Etch & Clean and thoroughly rinsed away and left to dry prior to using Watco 4-Hour Epoxy Primer.

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.

APPLICATION

Important – once the contents of the pack have been mixed, a chemical reaction takes place which creates heat, and the product should therefore be used immediately. Best results are obtained in warm (minimum of 15°C), dry conditions with good ventilation. Apply one coat with a medium pile roller, (not foam), working well into the surface of the concrete.

Do not exceed the maximum coverage rate (see section headed 'Coverage' for further information).

As a guide, Watco 4-Hour Epoxy Primer can be over coated with a high build coating when it is touch dry (generally 4 – 8 hours), but should be applied within 48 hours. If more than 48 hours elapse, the primer should be lightly abraded to provide a key.

SAFETY: Material Safety Data Sheets are available.

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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