Technical Data Sheet

Epoxy Gloss Coat
Epoxy Gloss Coat Hygienic
Epoxy Matt Coat
Epoxy Matt Coat Hygienic



Watco Epoxy Gloss Coat has been re-formulated to produce a 'Best in Class' water based epoxy resin. This tough, easy to use coating now dries faster to reduce downtime and lasts longer to save recoating costs. The rapid drying formula also allows the application of 2 coats in one day. Our unique blend of the best resins available provide an attractive, low maintenance, hard wearing floor finish which lasts and lasts.
Epoxy Matt Coat is also available where a matt finish may be desirable to reduce glare or help hide minor imperfections in a worn concrete floor.
Hygienic grades incorporate Silver Ion technology and are ideal for areas where cleanliness and hygiene are as important as a hard wearing finish. Although the product tests as 'low slip potential', if positive traction is required, please specify Watco Safety Coat. All grades have impressive test results for abrasion, scratch and impact resistance as well as for adhesion, hardness and flexibility. They are also breathable, chemical resistant, safe for food production areas and have a Bfl-s1 fire rating. The range carries an A+ VOC emissions rating with a low level of VOC.
All tests have been undertaken to ISO standard where applicable and demonstrated this 'Best Ever Formulation' to be 40% harder wearing than previously.

Colours/RAL Reference

- Light Grey 0007500
- Mid Grey 7036
- Dark Grey 7005
- Blue Grey 7000
- Black 9005
- Mid Blue 5015
- Dark Blue 5005
- Mid Green 6002
- Signal Red 3020
- Hazard Yellow 1021
- White 9010
- Stone 7032
- Tile Red



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.

Areas of use:

- Warehouse
- Production Areas
- Workshops
- Showrooms
- Most heavily trafficked floors

Features:

- Tough, hard wearing floor finish for heavy wear areas
- Apply to bare or previously painted surfaces
- Easy roll, low odour application
- Apply 2 coats in one day to reduce downtime
- New colour formulations to RAL shades
- Gloss, Matt or Hygienic versions available
- Bfl-s1 fire rating
- Tested safe for use in food production areas
- New 15L super sized tin available in Epoxy Gloss Coat Original

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 **Epoxy Gloss Coat, Gloss Coat Hygienic, Epoxy Matt Coat, Epoxy Matt Coat Hygienic.**

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

Watco UK Ltd, Eastgate Court, 195-205 High Street, Guildford, Surrey, GU1 3AW
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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 the 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. If residual damp remains this is acceptable as Epoxy Gloss Coat is breathable.
Powerfloated or very smooth surfaces – Watco Powerfloat Primer should be used on very smooth or power floated surfaces.
New Concrete – new concrete should be left for four weeks to dry in the summer and six in the winter. 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 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.
Highly porous surfaces –a primer may be required for high suction surfaces such as sand and cement screed.
Please contact us for advice.

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 (5L) or large bucket (15L). 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. Please note: if it is not mixed thoroughly, there is a risk of an inconsistent finish.

3 Application

Best results are obtained in warm (minimum 15ºC Gloss Coat/20ºC Matt Coat), dry conditions with good ventilation. In very high temperatures (30ºC and above), it is recommended that bare concrete is lightly dampened first with water. 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. The product will darken slightly as
curing commences and it should not be over rollered. The second coat can be applied as soon as the first coat is dry (generally 4-6 hours) and should be applied within 5 days. If more than 5 days elapse, the first coat should be lightly abraded before the second coat is applied. Avoid washing the surface for 7 days.

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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Specification

Composition	Water based epoxy resin.
Number of Components	1 x curing agent, 1 x resin.
Finish	Coloured, glossy, smooth.
Primer Required	See 'Surface Preparation on p.2'
Number of Coats	2
Dry Film Thickness	100 microns.
Wet Film Thickness	160 microns.
Usage Interior/Exterior	Interior. Can fade if used outside.
Application Tools	Medium pile roller. Cut in using brush.
Minimum Application Temperature	Epoxy Gloss Coat: Air temperature 15°C, Floor temperature 10°C Epoxy Matt Coat: Air temperature 20°C, Floor temperature 20°C
Suitable For	Concrete, wood, sand and cement and existing, well bonded paint. The moisture content of concrete should be less than 75% RH.
Coverage	5L 30m^2 per coat., 15L 90m^2 per coat
Pot Life	Up to 2 hours at 20°C.
Mix Ratio (by weight)	100 parts curing agent : 120 parts resin.
Cleaning Tools	Warm soapy water.
Shelf Life	24 months in unopened containers.
Cleaning	Normal industrial cleaners - Watco Bio-D is ideal. Do not steam clean.
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. Lighter colours (e.g. whites, yellows and light greens) may require multiple coats due to lower opacity.

Curing Time

	Recoat Time	Touch Dry	Light Traffic	Heavy Traffic	Full Chemical Resistance
10°C	6 - 8 hours	4 hours	16 hours	48 hours	7 days
20°C	4 - 6 hours	2 hours	12 hours	24 hours	7 days
30°C	4 hours	1 hour	12 hours	24 hours	7 days

Light Traffic: Foot, trolley, pallet truck, occasional forklift Heavy Traffic: Regular forklift, heavy footfall, parked vehicles.

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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



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



Gloss Value

Rating is a 'Gloss Unit' measured on an Optical Glossmeter. Fine texture produces a mid-gloss finish on most substrates.

Matt 0-10%,
Low Sheen 10-25%,
Eggshell 26-40%,
Semi-Gloss 41-69%, Gloss 70-85%, High Gloss +85%



Scratch Resistance ISO 4586-2

Scratch resistance is measured using a Sclerometer and the resistance is measured in Newtons. 1N is the lowest resistance, 20N the highest.

1N → 20N
Lowest → Highest



Chemical Resistance

Results shown are for tests with commonly used chemicals. Advice can be given for chemicals not listed here.

Petrol, diesel, fuel, methylated spirits, xylene, ammonia, white spirit, bleach, oil, anti-freeze, mineral hydraulic oil, caustic soda, detergents, sugar solutions.
At 5%: citric acid.



Reaction to Fire BS EN 13501 – 1:2018

Testing to Radiant Panel and Single-Flame tests yielded the best results possible for an organic coating: Bfl-S1

Bfl → Does not easily ignite
S1 → No smoke detected

Classification report available upon request.



Food Taint Test, Sensory Test Method (Also EN71/3 Non Toxic)

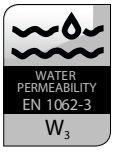
Safe for food production areas



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
W_1 → W_2 → W_3
Lowest → Highest

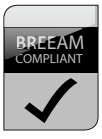


Wolff-Wilborn Hardness Test

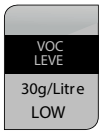
Also known as the 'pencil test', a 9H reading is the measure of a hardest coating, HB is the softest.

HB → 9H
Least Hard → Hardest

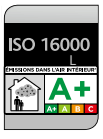
Standard Compliance



BREEAM COMPLIANT (for refurbisment)

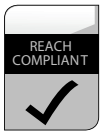


VOC LEVEL



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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