Technical Data Sheet

Safety Coat
Safety Coat Hygienic
Safety Coat Coarse

A two part epoxy with pre-blended aggregate for an even, easy clean, fine, anti slip finish



Watco Safety Coat has been re-formulated to produce a 'Best in Class' water based, anti slip 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 provides an attractive, low maintenance, hard wearing floor finish which lasts and lasts.
Hygienic grades incorporate Silver Ion technology and are ideal for areas where slip resistance, cleanliness and hygiene are as important as a hard wearing finish.
All grades have impressive test results for slip resistance, 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 Bue 5015	Dark Blue 5005	Mid Green 6002
Signal Red 3020	Hazard Yellow 1021	White 9010	
Tile Red	Stone 7032		



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:

- Warehouses
- Production Areas
- Workshops
- Showrooms
- Potentially slippery, heavy wear areas

Features:

- Tough, hard wearing floor finish for heavy wear areas
- Pre-blended aggregate provides an evenly textured finish
- Apply to bare or previously painted surfaces
- Easy to apply, low odour application
- Apply 2 coats in one day to reduce downtime
- New colour formulations to RAL shades
- Bfl-s1 fire rating
- Tested safe for use in food production areas
- Superior performance
- Super size 15L available in Safety 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 **Safety Coat.**

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
Tel: **01483 418 418** www.watco.co.uk E-mail: **sales@watco.co.uk**, Tel: **01 6725 180** www.watco.ie E-mail: **sales@watco.ie**

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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. Remove Etch & Clean by thoroughly rinsing with clean water and allow surface to dry. If residual damp remains, this is acceptable since Safety 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 (15). 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 15ºC), 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. Occasional stirring will ensure a more even distribution of the aggregate. 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 seven days.

4 Safety

All product labels provide general safety information. Material Safety Data Sheets are available. Food products must be removed from the area during application and cure.

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	Anti slip water based epoxy resin.
Number of Components	1 x curing agent and 1 x resin.
Finish	Finely textured, mid gloss.
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	Air temperature 15°C Floor temperature 10°C
Suitable For	Concrete, sand and cement, wood, existing well bonded paint. The moisture content of concrete should be less than 75% RH.
Coverage	Safety Coat All Versions 5L30m^2 per coat, Safety Coat 15L: 90m^2 per coat.
Pot Life	Up to 2 hours at 20°C
Mix Ratio (by weight)	100 parts curing agent : 132 parts resin.
Cleaning Tools	Warm soapy water.
Shelf Life	12 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)

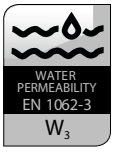
Safe for food production areas



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 (Nmm^2)
= 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

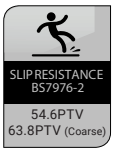
CE Marking Critical Value:
< 0.1kg/m^2/(24 h)0.5
W_1 → W_2 → W_3
Lowest → Highest



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

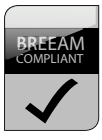


Slip Resistance BS7976-2

The Pendulum Test Value (PTV) is measured in wet conditions. A number above 36 indicates a 'low slip potential'.

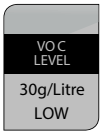
High: 0-24 PTV
Moderate: 25-35 PTV
Low: 36+ PTV

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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