

**SAFETY COAT**  
**SAFETY COAT HYGIENIC**  
**SAFETY COAT COARSE**  
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**AREAS OF USE**

- Warehouse
- 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 roller, low odour application
- Apply 2 coats in one day to reduce downtime
- New colour formulations to RAL shades
- Class 1 fire rating
- Tested safe for use in food production areas
- Superior performance demonstrated by ISO testing to CE mark EN1504-2

**DESCRIPTION**

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 with a 'diamond hard' wax and ceramic additive provide 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 now carry CE Mark EN1504-2 and 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 Class 1 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.

**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                 | Not usually. Use Watco Powerfloat Primer on very smooth surfaces.   |
| 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<br>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                        | 30m <sup>2</sup> per 5L 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 Protect 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 | Unsuitable for bare metal. Most self levelling compounds cannot be painted - please ask for details. |

**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.

| 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

**COLOURS/RAL REFERENCE**

|                  |                     |
|------------------|---------------------|
| Light Grey /7035 | Deep Red /3003      |
| Mid Grey /7036   | Signal Red /3020    |
| Dark Grey /7005  | Hazard Yellow /1021 |
| Blue Grey /7000  | White /9010         |
| Black /9005      | Mid Green /6002     |
| Mid Blue /5015   | Tile Red            |
| Dark Blue /5005  | Stone /7032         |

TEST RESULTS

|   |   |  |  |   |  |
|---|---|--|--|---|--|
| <br><b>Abrasion Resistance ISO 5470-1</b><br>57mg           | 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<br>Lowest —————> Highest                                   | <br><b>Flexibility ISO 1519</b><br>2mm                           | Flexibility is measured using a Mandral Flex Tester, 2mm is the most flexible, 36mm the least.  | 36mm —————> 2mm<br>Lowest —————> Highest   |
| <br><b>Impact Resistance ISO 6272</b><br>CLASS 3            | Impact is expressed as Newton metres. Greater than 4 Nm is a CE mark pass.  | Class 1 >4Nm<br>Class 2 >10Nm<br>Class 3 >20Nm                               | <br><b>GLOSS VALUE</b><br>98                                     | Rating is a 'Gloss Unit' measured on an Optical Glossmeter. Fine texture produces a mid-gloss finish on most substrates.                            | Matt 0-10%,<br>Low Sheen 10-25%,<br>Eggshell 26-40%,<br>Semi-Gloss 41-69%,<br>Gloss 70-85%,<br>High Gloss +85%   |
| <br><b>Scratch Resistance ISO 4586-2</b><br>7N              | Scratch resistance is measured using a Sclerometer and the resistance is measured in Newtons. 1N is the lowest resistance, 20N the highest.             | 1N —————> 20N<br>Lowest —————> Highest                                       | <br><b>CHEMICAL RESISTANCE</b><br>GOOD                           | 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. |
| <br><b>Surface Spread of Flame BS476 Part 7</b><br>CLASS 1  | The test measures the distance and time a flame takes to spread across a surface. Class 0 is the least combustible and Class 4 is the most combustible. | Class:<br>0 —> 1 —> 2 —> 3 —> 4<br>Least Combustible —————> Most Combustible | <br><b>FOOD TAINT TEST EN 1773</b><br>✓                          | <b>Food Taint Test, Sensory Test Method (Also EN71/3 Non Toxic)</b>   | Safe for food production areas   |
| <br><b>Adhesion Test EN 1542</b><br>4.1MPa/Nmm <sup>2</sup> | Adhesion is expressed in MegaPascals (MPa) or Newton millimetres squared (Nmm <sup>2</sup> ). Greater than 2 MPa is a CE mark pass.                     | >2MPa (Nmm <sup>2</sup> ) = test pass  | <br><b>WATER PERMEABILITY EN 1062-3</b><br>W <sub>3</sub>        | <b>Water Permeability EN 1062-3</b><br>To achieve a CE mark, the measurement must be less than 0.1 kg/m <sup>2</sup> (24 h) <sup>0.5</sup>          | CE Marking<br>Critical Value:<br>< 0.1kg/m <sup>2</sup> (24 h) <sup>0.5</sup><br>W <sub>1</sub> —————> W <sub>2</sub> —————> W <sub>3</sub><br>Lowest —————> Highest                     |
| <br><b>Wolff-Wilborn Hardness Test</b><br>9H                | Also known as the 'pencil test', a 9H reading is the measure of a hardest coating, HB is the softest.   | HB —————> 9H<br>Least Hard —————> Hardest                                    | <br><b>SLIP RESISTANCE BS7976-2</b><br>55 PTV<br>59 PTV (Coarse) | <b>Slip Resistance BS7976-2</b><br>The Pendulum Test Value (PTV) is measured in wet conditions. A number above 36 indicates a 'low slip potential'. | High: 0-24 PTV<br>Moderate: 25-35 PTV<br>Low: 36+ PTV  |

STANDARD COMPLIANCE

|                            |  |                             |                         |                                       |                  |                            |   |                            |
|----------------------------|--|-----------------------------|-------------------------|---------------------------------------|------------------|----------------------------|---|----------------------------|
| <br><b>EN 1504-2</b><br>CE | This mark indicates that a coating has passed all the tests required to carry a CE mark. | <br><b>BREEAM COMPLIANT</b> | <b>BREEAM COMPLIANT</b> | <br><b>VOC LEVEL</b><br>30g/Litre LOW | <b>VOC LEVEL</b> | <br><b>ISO 16000</b><br>A+ | <b>ISO 16000</b><br>The 'Loi Grenelle' measurement of the effect of a product's VOC level within a building. A+ is the top safety rating. | <br><b>REACH COMPLIANT</b> |
|----------------------------|--|-----------------------------|-------------------------|---------------------------------------|------------------|----------------------------|---|----------------------------|

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. Watco Concroff is a very powerful degreaser for contaminated bare concrete (Concroff can soften paint.)

**Highly porous surfaces** – a primer may be required for high suction surfaces such as sand and cement screed. Please contact us for advice.

**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:** Best results are obtained in warm (minimum 15°C), dry conditions with good ventilation. In very high temperatures (30°C 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<sup>2</sup> per 5 litre pack, per coat. The product will darken slightly as curing commences and it should not be over rolled. 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.

**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.

**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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