

Safety Grip®

Safety Grip® Cold Cure

Safety Grip® Flex



For steps, ramps and floors, in wet or oily areas.
Coarse anti slip finish to reduce accidents

Watco Safety Grip and Safety Grip Cold Cure are heavy duty, coarse textured, anti slip, two pack epoxy resin coatings; they're designed to provide a safe surface both inside and out. Using one high build coat of Safety Grip minimises the risk of accidents throughout the workplace, particularly for wet or oily areas. All grades now carry CE Mark EN 1504-2 and have test results for slip resistance, abrasion, scratch and impact resistance, as well as for adhesion and hardness. They are also chemical resistant and have an A+ VOC emissions rating with a low level of VOC. Watco Safety Grip Cold Cure can be applied as low as 0°C, providing exceptional slip resistance in unheated areas or outside in the winter months. Watco Safety Grip Flex, a tough, flexible, two part polyaspartic coating provides a good level of flexibility for areas which may be subject to movement, such as metal or wooden ramps or around vibrating machinery.

Colours/RAL Reference

 Black Safety Grip Safety Grip Cold Cure	 Light Grey Safety Grip Safety Grip Cold Cure Safety Grip Flex	 Mid Grey Safety Grip Safety Grip Cold Cure Safety Grip Flex
 Tile Red Safety Grip Safety Grip Cold Cure Safety Grip Flex	 Buff Safety Grip Safety Grip Cold Cure	 Safety Blue Safety Grip Safety Grip Cold Cure Safety Grip Flex
 Safety Green Safety Grip Safety Grip Cold Cure	 Safety Yellow Safety Grip Safety Grip Cold Cure Safety Grip Flex	

*A coat of Watco Epoxy Gloss Coat Hazard Yellow is recommended on darker substrates or bare concrete prior to applying Watco Safety Grip Safety Yellow.

** Please note, if the colour light grey is required for an external application, please use Safety Grip Flex Light Grey, this product is better suited for UV resistance.

Areas of use:

- Slippery, hazardous, wet or oily areas
- Around machinery
- Steps, ramps/ disabled ramps, foot bridges
- Loading Bays, walkways and entrance ways
- Car parks
- Around vibrating machinery (see Safety Grip Flex)

Features:

- Tough, coarse, anti slip floor finish for areas that are wet and prone to oil spills
- Positive traction for pedestrians and heavy forklift traffic
- Two part coating with excellent abrasion resistance
- One coat high build application
- Can be used both indoors and outdoors
- Ideal for areas subject to movement (see Safety Grip Flex)
- Superior performance demonstrated by ISO testing to CE Mark EN1504-2

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 Grip, Safety Grip Cold Cure or Safety Grip Flex.**

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



Safety Grip[®]

Safety Grip[®] Cold Cure

Safety Grip[®] Flex

1 Surface Preparation

Bare Concrete – 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.

New Concrete – as a guide, new concrete should be left for 8 weeks to dry. The surface should then be prepared using Watco Etch & Clean, thoroughly rinsed and left to dry.

Priming – is not usually required, but for very porous high suction surfaces (such as sand and cement screed) use Watco 4 Hour Epoxy Primer. Concrete should be sufficiently porous to allow the paint to penetrate so very smooth or power floated concrete is unsuitable unless first primed with Watco Powerfloat Primer.

Painted Surfaces – Diamond grind the surface prior to application to achieve a consistently rough profile, and ensure all weakly bonded material is removed. Glossy or inadequately prepared surfaces may cause adhesion issues, so a thorough inspection is recommended to ensure no areas are missed, a bristle blaster can be used in any hard-to-reach areas. Thoroughly sweep the area following grinding; any loose material or dust can compromise adhesion. Bio-D can be used to remove any grease and oil from the surface following the grinding process, however, surfaces washed with Watco Bio D must be then thoroughly rinsed with water and allowed to dry fully, prior to coating.

Asphalt – new asphalt must be sound and at least 3 months old. If any residual oils remain, the surface should be washed using Watco Concroff. Painted asphalt should be cleaned with Watco Bio-D (Concroff can soften paint), and a trial area is advisable to test compatibility with previous coatings.

Metal – remove any rust and flaking material by disc grinding or wire brushing. Apply the coating immediately after preparation to the clean metal surface. Grease or oil can be removed using Watco Bio-D. Allow the metal to dry before coating.

Galvanised Metal – Watco Galvaprim must be used to prepare galvanised metal.

Non-ferrous Metals – Please contact our Technical Department for advice.

2 Mixing & Application

To watch our online application video, please go to www.watco.co.uk

1. Individually stir the resin and curing agent using a Watco Paint Mixer (or a wooden batten at least 25mm wide is ideal).
2. Pour the mixed components into the larger outer tin and stir thoroughly until uniform in colour.
3. Pour the mixed resin and curing agent into a shallow roller tray.
4. Apply the mixed resin and curing agent by medium pile roller (not foam) to a measured area of 5m². A paint brush may be used for cutting in around the edges.
5. Using the perforated anti slip aggregate tin, immediately sprinkle the aggregate, uniformly, onto the wet coat to obtain the desired surface finish (total or light coverage).
6. Using the same roller that was used to apply the mixed resin and curing agent, roll over the sprinkled aggregate to bed in. Do not re-charge the roller with mixed resin and curing agent, unless very heavy quantities of grit have been applied as this will result in a loss of slip resistance.
7. Avoid washing the surface for 7 days after application. In exceptional temperature conditions advice should be obtained from Watco's Technical Department.

3 Maintenance

Remove dirt with a medium stiff broom or light scrubbing machine using detergents if necessary – Watco Bio-D is ideal.

4 Safety

Material Safety Data Sheets are available.

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Safety Grip[®] Flex

Specification

Composition	Safety Grip/Cold Cure: Anti slip, 100% solids epoxy resin. Safety Grip Flex: Anti slip, 85% solids polyaspartics.
Number of Components	1 x curing agent, 1 x resin and 1 x anti slip particles.
Finish	Heavily textured, glossy.
Primer Required	Not usually. See section headed 'Priming' on P.2.
Number of Coats	1
Wet & Dry Film Thickness	Safety Grip/Cold Cure: 320 microns. Safety Grip Flex: 250 microns.
Usage Interior/Exterior	Interior & exterior.
Application Tools	Medium pile roller. Cut in using a brush.
Minimum Application Temperature	Air temperature 15°C. Floor temperature 10°C. (0°C for Cold Cure)
Suitable For	Concrete, well bonded paint, most flat rigid metals and stone. Use Safety Grip Flex on wood or flexible metal and asphalt (must be 3 months old). The moisture content of concrete should be less than 75% RH.
Coverage	5m ² .
Pot Life	Safety Grip/Cold Cure: Up to 30 mins at 20°C. Flex: Up to 15 mins at 25°C.
Mix Ratio	Safety Grip/Cold Cure - 100 parts resin: 40 parts curing agent. Flex - 100 parts resin: 95 parts curing agent.
Cleaning Tools	It is not practical to clean applicators and they should be discarded after use.
Shelf Life	Safety Grip/Cold Cure: 24 months in unopened containers. Safety Grip Flex: 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	Most self-levelling compounds cannot be painted – please ask for details. Unsuitable for new asphalt and galvanised surfaces. Painting chequer plate can be a problem since any coating will prematurely wear off the 'high spots' when subjected to regular traffic.
Please contact us regarding applications not described here.	

Curing Times (hours)

	Recoat Times	Touch Dry	Light Traffic	Heavy Traffic
Safety Grip	16 at 10°C, 12 at 20°C, 8 at 30°C	12 at 10°C, 6 at 20°C, 4 at 30°C	24 at 10°C, 16 at 20°C, 12 at 30°C	36 at 10°C, 24 at 20°C, 24 at 30°C
Safety Grip Cold Cure	20 at 0°C, 12 at 10°C, 10 at 20°C	12 at 0°C, 8 at 10°C, 6 at 20°C	24 at 0°C, 16 at 10°C, 16 at 20°C	48 at 0°C, 36 at 10°C, 24 at 20°C
Safety Grip Flex	12 at 10°C, 8 at 20°C, 6 at 30°C	10 at 10°C, 6 at 20°C, 3 at 30°C	16 at 10°C, 12 at 20°C, 12 at 30°C	24 at 10°C, 24 at 20°C, 24 at 30°C

Full Chemical Resistance: 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 163mg Flex: 155mg	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	 HARDNESS 8H Flex: 7H	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
 IMPACT RESISTANCE ISO 6272 CLASS1 Flex: CLASS3	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	 FLEX ISO 1519 Flex: 8mm	Flexibility ISO 1519 Flexibility is measured using a Mandral Flex Tester, 2mm is the most flexible, 36mm the least.	36mm → 2mm Lowest → Highest
 SCRATCH RESISTANCE ISO 4586-2 7N	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 VERY GOOD	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.
 ADHESION ISO 2409 CLASS0	Adhesion Test ISO 2409 Cross-Cut Test method. Class 0 is highest adhesion, Class 5 is lowest.	Class: 5 → 4 → 3 → 2 → 1 Lowest → Highest	 WATER PERMEABILITY EN 1062-3 W ₃	Water Permeability EN 1062-3 To achieve a CE mark, the measurement must be less than 0.1 kg/m ² (24 h) 0.5	CE Marking Critical Value: < 0.1kg/m ² /(24 h)0.5 W ₁ → W ₂ → W ₃ Lowest → Highest
 ADHESION EN 1542 4.1MPa/Nmm ²	Adhesion Test EN 1542 Adhesion is expressed in MegaPascals (MPa) or Newton millimetres squared (Nmm ²). Greater than 2 MPa is a CE mark pass.	>2MPa (Nmm ²) = test pass	 SLIP RESISTANCE BS7976-2 69 PTV Flex: 74 PTV	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

 EN 1504-2 CE	EN 1504-2 This mark indicates that a coating has passed all the tests required to carry a CE mark.	 BREEAM COMPLIANT	BREEAM COMPLIANT (for refurbishment)	 VOC LEVEL 30g/Litre LOW	VOC LEVEL	 ISO 16000 A+	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	REACH COMPLIANT
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