

SAFETY GRIP®
SAFETY GRIP® COLD CURE
SAFETY GRIP® RAPID
SAFETY GRIP® FLEX



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
- Cures within 8 hours to withstand light traffic (see Safety Grip Rapid)
- Ideal for areas subject to movement (see Safety Grip Flex)
- Superior performance demonstrated by ISO testing to CE Mark EN1504-2

DESCRIPTION

Watco Safety Grip, Cold Cure & Rapid are heavy duty, coarse textured, anti slip, two pack epoxy resin coatings 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 Rapid offers all the benefits of Safety Grip but it cures within 8 hours to withstand light traffic saving on downtime. 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 pack polyurethane 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.

SPECIFICATION

Composition	Safety Grip/Rapid/Cold Cure: Anti slip, 100% solids epoxy resin. Safety Grip Flex: Anti slip, 100% solids polyurethane.	Coverage	5m ² .
Number of Components	1 x curing agent, 1 x resin and 1 x anti slip particles.	Pot Life	Safety Grip/Cold Cure: Up to 30 mins at 20°C. Rapid: Up to 20 mins at 20°C. Flex: Up to 25 mins at 25°C.
Finish	Heavily textured, glossy.	Mix Ratio	Safety Grip/Rapid/Cold Cure - 100 parts resin: 40 parts curing agent. Flex - 100 parts resin: 22 parts curing agent.
Primer Required	Not usually. See section overleaf headed 'Priming'.	Cleaning Tools	It is not practical to clean applicators and they should be discarded after use.
Number of Coats	1	Shelf Life	Safety Grip/Rapid/Cold Cure: 24 months in unopened containers. Safety Grip Flex: 12 months in unopened containers.
Wet & Dry Film Thickness	Safety Grip/Rapid/Cold Cure: 320 microns. Safety Grip Flex: 250 microns.	Cleaning	Normal industrial cleaners - Watco Protect is ideal. Do not steam clean.
Usage Interior/ Exterior	Interior & exterior.	Storage	Between 15°C-25°C for at least 8 hours prior to use. Do not allow to freeze.
Application Tools	Medium pile roller. Cut in using a brush.	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.
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.		

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.

COLOURS

White	Safety Grip
Black	Safety Grip Safety Grip Cold Cure Safety Grip Rapid
Light Grey	Safety Grip Safety Grip Cold Cure Safety Grip Rapid
Mid Grey	Safety Grip Safety Grip Cold Cure Safety Grip Rapid Safety Grip Flex
Tile Red	Safety Grip Safety Grip Cold Cure Safety Grip Rapid Safety Grip Flex
Stone	Safety Grip Safety Grip Cold Cure
Buff	Safety Grip Safety Grip Cold Cure
Safety Blue	Safety Grip Safety Grip Cold Cure Safety Grip Rapid Safety Grip Flex
Safety Red	Safety Grip Safety Grip Cold Cure Safety Grip Rapid
Safety Green	Safety Grip Safety Grip Cold Cure Safety Grip Rapid
Safety Yellow*	Safety Grip Safety Grip Cold Cure Safety Grip Rapid

* 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.

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 Rapid	12 at 10°C, 8 at 20°C, 6 at 30°C	8 at 10°C, 4 at 20°C, 3 at 30°C	16 at 10°C, 8 at 20°C, 8 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

TEST RESULTS

<p>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.</p>	<p>3000mg → 0mg Lowest → Highest</p>	<p>Wolff-Wilborn Hardness Test Also known as the 'pencil test', a 9H reading is the measure of a hardest coating, HB is the softest.</p>	<p>HB → 9H Least Hard → Hardest</p>
<p>Impact Resistance ISO 6272 Impact is expressed as Newton metres. Greater than 4 Nm is a CE mark pass.</p>	<p>Class 1 >4Nm Class 2 >10Nm Class 3 >20Nm</p>	<p>Flexibility ISO 1519 Flexibility is measured using a Mandral Flex Tester, 2mm is the most flexible, 36mm the least.</p>	<p>36mm → 2mm Lowest → Highest</p>
<p>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.</p>	<p>1N → 20N Lowest → Highest</p>	<p>Chemical Resistance Results shown are for tests with commonly used chemicals. Advice can be given for chemicals not listed here.</p>	<p>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.</p>
<p>Adhesion Test ISO 2409 Cross-Cut Test method. Class 0 is highest adhesion, Class 5 is lowest.</p>	<p>Class: 5 → 4 → 3 → 2 → 1 → 0 Lowest → Highest</p>	<p>Water Permeability EN 1062-3 To achieve a CE mark, the measurement must be less than 0.1 kg/m²(24 h)^{0.5}</p>	<p>CE Marking Critical Value: < 0.1kg/m²/(24 h)^{0.5} W₁ → W₂ → W₃ Lowest → Highest</p>
<p>Adhesion Test EN 1542 Adhesion is expressed in MegaPascals (MPa) or Newton millimetres squared (Nmm²). Greater than 2 MPa is a CE mark pass.</p>	<p>>2MPa (Nmm²) = test pass</p>	<p>Slip Resistance BS7976-2 The Pendulum Test Value (PTV) is measured in wet conditions. A number above 36 indicates a 'low slip potential'.</p>	<p>High: 0-24 PTV Moderate: 25-35 PTV Low: 36+ PTV</p>

STANDARD COMPLIANCE

<p>EN 1504-2 This mark indicates that a coating has passed all the tests required to carry a CE mark.</p>	<p>BREEAM COMPLIANT</p>	<p>VOC LEVEL <30g/Litre Flex: <80g/Litre LOW</p>	<p>ISO 16000 The 'Loi Grenelle' measurement of the effect of a product's VOC level within a building. A+ is the top safety rating.</p>	<p>REACH COMPLIANT</p>
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PREPARATION & APPLICATION

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.

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 – abrade to remove any weak or 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, (do not use on a previously painted surface since it can soften paint). A trial area is advisable to test compatibility with previous coatings.

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 – for advice, please contact our Technical Department.

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, since 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.

MAINTENANCE

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

SAFETY

Material Safety Data Sheets are available.



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