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.
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 overleaf headed 'Priming'.
Number of Coats	1
Wet & Dry Film Thickness	Safety Grip/Rapid/ 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, flat rigid metal, stone. Use Safety Grip Flex on wood or flexible metal and asphalt (must be 6+ months old).
Coverage	5m².

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.
Mix Ratio	Safety Grip/Rapid/Cold Cure - 100 parts resin: 40 parts curing agent. Flex - 100 parts resin: 22 parts curing agent.
Cleaning Tools	It is not practical to clean applicators and they should be discarded after use.
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 Please contact us regarding applications not described here.	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.

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

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

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

Impact is expressed as Newton metres. Greater than 4 Nm is a CE mark pass.

Class 1 >4Nm
Class 2 >10Nm
Class 3 >20Nm

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

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.

Adhesion Test ISO 2409

Cross-Cut Test method. Class 0 is highest adhesion, Class 5 is lowest.

Class:
5 → 4 → 3 → 2 → 1 → 0
Lowest Highest

Water Permeability EN 1062-3

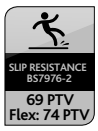
To achieve a CE mark, the measurement must be less than 0.1 kg/m²(24 h)$^{0.5}$

CE Marking
Critical Value:
< 0.1kg/m²/(24 h)$^{0.5}$
W_1 → W_2 → W_3
Lowest Highest

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



Slip Resistance BS7976-2

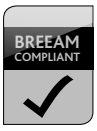
The Pendulum Test Value (PTV) is measured in wet conditions.
A number above 36 indicates a 'low slip potential'.

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

STANDARD COMPLIANCE

EN 1504-2

This mark indicates that a coating has passed all the tests required to carry a CE mark.



BREEAM COMPLIANT

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

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 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 four weeks to dry in the summer and six in the winter. 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 6 months old. Clean bare asphalt with Watco Concroff to remove any residual oils and to remove any deposits of dirt, oil or grease. 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 Galvaprime must be used to prepare galvanised metal.

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. Immediately sprinkle the anti slip 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: 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: Watco Safety Grip and Watco Safety Grip Cold Cure are supplied in packs designed to cover up to 5m2. Available direct from Watco UK Limited in the UK 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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