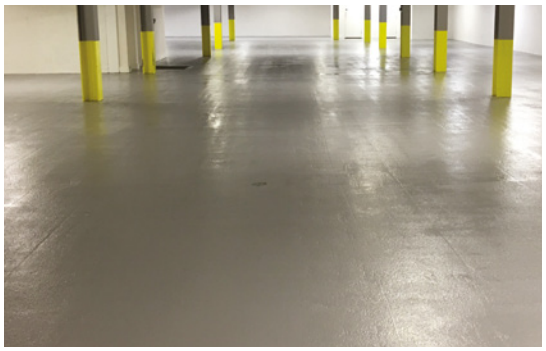
SAFETY COAT COLD CURE



AREAS OF USE

- Production Areas
- Warehouses
- Workshops
- Loading bays
- Cold stores, walk-in fridges and freezers
- Interior and exterior

FEATURES

- High performance, two part, anti slip, polyaspartic resin formulation
- Easy clean, anti slip surface
- Can be applied at temperatures as low as -10°C and as high as 25°C
- Excellent resistance to UV and weathering
- Fast curing – ready for heavy traffic in just 16 hours
- Superior abrasion and scratch resistance
- Extremely strong – easily copes with forklift trucks
- Superior performance demonstrated by ISO testing to CE Mark EN1504-2

DESCRIPTION

Watco Safety Coat Cold Cure is a new type of anti slip resin formulation that can be applied as low as minus 10°C. This high performance coating can be applied in cold conditions where conventional coatings will fail to dry.

It is most suited for use in heavily trafficked unheated areas such as workshops, warehouses, loading bays and cold stores.

If a coarser textured finish is required for spillage areas or ramps, please see instead Watco Safety Grip Cold Cure (wet PTV 69).

Safety Coat Cold Cure is extremely resistant to UV and has excellent resistance to weathering, making it a versatile, all year round coating.

The finely textured particles are spherical; this makes it easier to keep clean compared to other anti slip coatings which contain a coarse, more angular type grit.

Safety Coat Cold Cure carries CE Mark EN1504-2 and has impressive test results for slip resistance, abrasion and impact resistance, as well as for adhesion and hardness.

SPECIFICATION

Composition	Two pack, high solids, polyaspartic resin.
Number of Components	1 x curing agent, 1 x resin and 1 x anti slip particles.
Finish	Coloured, high gloss, finely textured.
Primer Required	See section headed 'Priming'.
Number of Coats	2
Dry Film Thickness	85 microns.
Wet Film Thickness	100 microns.
Usage Interior/ Exterior	Interior & exterior.
Application Tools	Short pile roller. Cut in using a brush.
Minimum Application Temperature	-10°C
Suitable For	Concrete, asphalt (3 months old), sand and cement screeds, well bonded paint, some metals and wood. The moisture content of concrete should be less than 75% RH.
Pack Size	2.5L
Coverage	25m^2 per coat onto a non-porous surface. If applying in temperatures below 0°C, or onto a textured or porous surface, coverage may be reduced.
Pot Life	15°C = 20 minutes.

Mix Ratio (by weight)	20 parts curing agent : 100 parts resin.
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.	Do not apply to damp surfaces. Do not apply if rainfall is imminent. Do not apply to power floated surfaces. Most self-levelling compounds cannot be painted – please ask for details. Painting chequer paint can be a problem since coatings can wear prematurely off the 'high spots'.

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

- Light Grey
- Mid Grey
- Tile Red
- Mid Blue
- Mid Green
- Safety Yellow

CURING TIME	Recoat Time	Touch Dry	Light Traffic	Heavy Traffic	Full Chemical Resistance
-10°C	30 hours	24 hours	36 hours	48 hours	14 days
0°C	20 hours	16 hours	24 hours	36 hours	7 days
10°C	12 hours	8 hours	16 hours	24 hours	7 days
15°C	6 hours	4 hours	8 hours	16 hours	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

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

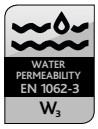
Results shown are for tests with commonly used chemicals. Advice can be given for chemicals not listed here.

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.

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

Wolff-Wilborn Hardness Test

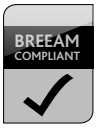
Also known as the 'pencil test', a 9H reading is the measure of a hardest coating, HB is the softest.

HB → 9H
Least Hard → Hardest

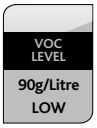
STANDARD COMPLIANCE

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

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 eight weeks to dry. 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 any weak or loose paint and check remaining paint is well bonded. 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).
Application in low temperatures – if applying in cold conditions the product should ideally be stored in a warm room for at least 8 hours prior to use. Below 5°C it may be necessary to avoid processes which involve wetting the floor due to the difficulty in drying. A good sweep or mechanical brushing may be sufficient.
Priming – is not usually required, but for open textured, or very porous high suction surfaces, such as sand and cement screed, use Watco Polyaspartic Primer to ensure a uniform finish and to prevent air entrapment bubbles. Watco Polyaspartic Primer should also be used to improve adhesion on smooth (but not power floated) concrete.
Metal – remove any rust or 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.
Non-ferrous Metals – for advice, please contact our Technical Department.
Wood – must be sound, clean and dry. If applying to ridged decking, please ensure that the grit particles are spread evenly across the surface.

MIXING

Mix between 10°C and 15°C. Remove the two inner tins from the tall outer tin. Stir 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). At this point add the unit of anti slip polymer additive. 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 side and bottom of the tin. Do not dilute unless you are stirring in the additive as described under 'Application in low temperatures'.

APPLICATION

Apply between -10°C and 25°C.
Empty the mixed components into a paint tray and apply to the floor using a short pile roller, (not a medium pile or foam), 'working out' the coating into a thin paint film. A paint brush can be used for cutting in. Do not apply the paint too thickly since this will reduce the slip resistant properties and result in reduced coverage. A feature of polyaspartic coatings is that they should be applied as a thin film. The second coat should be applied as soon as the first coat is dry (generally 6 hours at 20°C), but it must be applied within 5 days. If more than 5 days elapse, the first coat should be lightly abraded.

SAFETY

Material Safety Data Sheets are available.

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