

PROTECTA-COAT

PROTECTA-COAT ANTI SLIP



AREAS OF USE

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

FEATURES

- High performance, two part, glossy, clear, polyaspartic resin formulation
- One coat protects coloured and decorative coatings from heavy wear and tear
- Can be applied at temperatures as low as minus 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 hard wearing
- Flexible – copes with slight movement around vibrating machinery
- Superior performance demonstrated by ISO testing to CE Mark EN1504-2

DESCRIPTION

Watco Protecta-Coat is a new type of resin formulation that can be applied in cold conditions, as low as minus 10°C, when conventional coatings will fail to dry.

Protecta-Coat uses the latest polyaspartic technology for an exceptionally durable protective coating. It is ideal for long term protection of epoxy and decorative floor finishes.

Protecta-Coat is extremely resistant to UV and has excellent resistance to weathering. This adds to its versatility since it can be used all year round for many different applications, as a clear, hard wearing coating in its own right, or as the ultimate protection for previously painted floors.

The tough, highly glossy coating is smooth and easy to keep clean and maintain.

Watco Protecta-Coat Anti Slip provides a good level of slip resistance.

Protecta-Coat and Protecta-Coat Anti Slip both carry CE Mark EN1504-2 and have impressive test results for abrasion resistance, as well as for adhesion and hardness.

SPECIFICATION

Composition	Two pack, polyaspartic resin.	Pot Life	20°C = 20 minutes. Less than 20°C = 30 minutes.				
Number of Components	1 x curing agent, 1 x resin and 1kg of fine grit (Protecta-Coat Anti Slip).	Mix Ratio (by weight)	59 parts curing agent : 100 parts resin.				
Finish	Clear, high gloss, smooth or anti slip.	Cleaning Tools	It is not practical to clean applicators and they should be discarded after use.				
Primer Required	See section headed 'Priming'.	Shelf Life	12 months in unopened containers.				
Number of Coats	1	Cleaning	Normal industrial cleaners. Do not steam clean.				
Dry Film Thickness	100 microns.	Storage	Between 15°C-25°C for at least 8 hours prior to use. Do not allow to freeze.				
Wet Film Thickness	100 microns.	Principle Limitations Please contact us regarding applications not described here.	Do not apply to damp surfaces. When used outdoors, Protecta-Coat could become slippery; in such cases use Protecta-Coat Anti Slip. Do not apply if rainfall is imminent. Do not apply too thickly – apply it to a measured area of 30m ² . Do not apply to power floated concrete. Most self-levelling compounds cannot be coated – please ask for details.				
Usage Interior/ Exterior	Interior & exterior.						
Application Tools	Short pile roller. Cut in using a brush.	Samples are available on request.					
Minimum Application Temperature	-10°C	CURING TIME	Recoat Time	Touch Dry	Light Traffic	Heavy Traffic	Full Chemical Resistance
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.	-10°C	30 hours	24 hours	36 hours	48 hours	14 days
Pack Size	2.5L	0°C	20 hours	16 hours	24 hours	36 hours	7 days
Coverage	30m ² onto a non-porous surface. If applying onto a textured or porous surface, coverage may be reduced.	10°C	12 hours	8 hours	16 hours	24 hours	7 days
		20°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

 72mg	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	 2mm	Flexibility ISO 1519 Flexibility is measured using a Mandral Flex Tester, 2mm is the most flexible, 36mm the least.	36mm → 2mm Lowest → Highest
 CLASS 2	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	 100	Gloss Value Rating is a 'Gloss Unit' measured on an Optical Glossmeter.	Matt 0-10%, Low Sheen 10-25%, Eggshell 26-40%, Semi-Gloss 41-69%, Gloss 70-85%, High Gloss +85%
 10N	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	 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.
 CLASS 0	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	 W₃	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
 5.25MPa/Nmm²	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	 32 PTV (Anti Slip)	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
 9H	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 (For refurbishment requirements).	 120g/Litre LOW	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
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PREPARATION & APPLICATION

SURFACE PREPARATION

Painted surfaces – lightly abrade to remove any weak or loose paint and check remaining paint is well bonded. Do not worry about any minor scuff marks that appear as a result of light abrasion since they should disappear once the Protecta-Coat has cured. 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, which should not be used 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. All surfaces must be -10°C or above and free from ice or water.

Bare concrete – remove surface laitance, dust and any light dirt or grease 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 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.

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. Smooth (but not power floated) concrete should also be primed with Watco Polyaspartic Primer to improve adhesion.

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 Galvaprim 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 the anti slip version to ridged decking, please ensure that the grit particles are spread evenly across the surface.

MIXING

Mix between 10°C and 25°C. Remove the inner tins from the tall outer tin. Stir the contents of the resin tin thoroughly, (scraping around the inside of the tin to remove any residue and pour into the outer tin), then do the same with the curing agent - if using the anti slip version add the tin of fine grit. 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 consistency is 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 for the side and bottom of the tin. Do not dilute.

APPLICATION

Empty all of the mixed components into a shallow paint tray. Do not leave any in the tin. Apply to the floor using a short pile roller, (not a medium pile or foam), 'working out' the coating into a thin film to a measured area of 30m². A paint brush can be used for cutting in. Do not apply the coating too thickly since this will reduce the slip resistant properties and result in reduced coverage. If using the anti slip version, periodically agitate the mixed components in the shallow tray; this stops the grit from settling and re-disperses it ensuring a uniform finish is achieved.

SAFETY

Material Safety Data Sheets are available.

