

DECSEAL[®] WEARING COURSE

Slip Resistant Surface Colouring

Description

DECSEAL[®] Wearing Course is a liquid applied, three-component, fast curing, UV stable slip resistant coloured surface coating based on Stirling Lloyd's, now GCP Applied Technologies, unique ESSELAC[®] advanced resin technology and extensive experience in the development of high performance decorative surfacing.

Uses

DECSEAL[®] Wearing Course is supplied in a range of vibrant colours to provide a highly visible, slip resistant coating system that provides protection to the substrate. It is an ideal coating for MSCP intermediate car park decks, providing traffic, parking bay and pedestrian delineation.

Features

- Rapid cure even at low temperatures
- Cold applied, no heating equipment required
- Durable slip resistant surface
- Provides an excellent bond to concrete, steel, asphalt & thermoplastics surfaces
- Can be trafficked within one hour
- Easy to apply
- Excellent ageing properties and UV resistance
- Fast track and weather tolerant application when compared to water based paint systems
- Excellent abrasion and chemical resistance
- Good low temperature flexibility
- Available in a range of colours
- Certified to be in Compliance with EN1504-2

Technical Data

DECSEAL[®] Wearing Course is CE Marked under EN 1504-2 for which a Declaration of Performance is available on request.

PROPERTY	VALUE
Application Temperature Range ¹	0 to 30°C
Typical Working Life ²	
30°C (Summer)	8 minutes
20°C (Summer)	12 minutes
15°C (Summer)	15 minutes
10°C (Winter)	20 minutes
0°C (Winter)	25 minutes
Drive on Time	
30°C (Summer)	20 minutes
20°C (Summer)	40 minutes
15°C (Summer)	45 minutes
10°C (Winter)	50 minutes
0°C (Winter)	60 minutes
Skid Resistance Value ³ (TRL Pendulum, tailored to suit application requirements)	Typically 45 to 60 dependent on substrate profile

¹ For temperatures outside this application range please contact us.

² Assumes the correct grade is being used. DECSEAL[®] Wearing Course is supplied in winter and summer to allow an adequate working life across a wide range of temperatures. The winter grade is automatically supplied in the UK between October and March. Please contact us for further information prior to ordering.

³ Please note if the resin is applied too thick, the SRV value may be reduced.

Surface Preparation

The successful adhesion and durability of DECSEAL[®] Wearing Course is dependant on the thoroughness of the surface preparation.

All surfaces must be clean, dry and structurally sound. They must be free from oil, grease, curing compounds, de-icing salts, loose particles, moss, algae growth, laitance, friable matter, dirt, frost and all other contaminants. Any oil, grease, diesel or petrol must be removed using a cloth soaked in solvent

Concrete

All concrete decks must be prepared by suitable mechanical means such as vacuum blasting to provide a sound surface. Water Jetting is not an acceptable method of mechanical preparation.

New concrete decks should be a minimum of 14 days old and constructed in accordance with BS EN 1992. Repairs to damaged concrete can be made using our Metaset Rapid Repair material.

Asphalt

Ideally fresh macadam and cold or hand-applied asphalt should be at least 28 days old before DECSEAL[®] Wearing Course is applied. If it is to be applied at less than 28 days then a 'Patti' test should be conducted to establish the adhesion to the substrate. The Patti tests will determine if failure is within the substrate or not.

The area to be tested should be clean and dry. Apply DECSEAL[®] Wearing Course to the substrate being treated to form a circular Patti of approximately 100mm diameter and of sufficient thickness to provide an edge to strike, typically 5mm. When it has cured, place a bolster/cold chisel against the edge of the Patti and, with a hammer, strike the Patti from the surface. In all circumstances the mode of failure must be within the substrate otherwise further substrate preparation is required.

We would recommend that a Patti test is carried out every 50m², subject to a minimum of 3 tests per roadway to be treated. The sampling should include all variations in the asphalt substrate.

A hot compressed air (HCA) lance can be used for the removal of moisture, spot traces of oil and other contaminants. Severe contamination should be removed using a degreaser followed by thorough washing with a detergent/water solution before using the HCA lance.

The use of heat with a naked flame e.g. tri-burners to dry asphalt surfaces should be avoided as it may impair the adhesion of the system to the surface.

Steel

All rust, dirt and contamination should be removed to expose bright metal to achieve a surface finish to comply with Swedish standard Sa 2.5. Oil and grease can be removed by scouring using a water-soluble degreaser. Within 3 hours of shot-blasting the substrate must be primed with ZED S94 metal primer.

Application

Immediately prior to application ensure the substrate is completely dry and above the dew point. The Authorised Contractor must use masking tape or other approved means to provide a neat finish.

To assist quality assurance and help ensure the correct coverage rate is achieved the area to be coated by each kit of DECSEAL® Wearing Course should be marked out prior to application. The coverage rate must be monitored constantly. The total weight of material used against the total area covered must be recorded on the Site Q.A & Materials Record.

Primer

No primer is required on asphalt substrates.

Concrete substrates must be primed with either PAR1 or PA1 Primer. Steel substrates should be primed with ZED S94. Apply using a brush or roller. Further information is available on the relevant primer datasheets.

Mixing

DECSEAL® Wearing Course consists of a liquid resin, a powder catalyst (BPO) and hardwearing aggregates (ordered separately), all supplied in pre-weighed quantities ready for on-site mixing. The resin contents of the kit should be stirred thoroughly using a mechanical stirrer, such as an air-driven drill (400-800rpm) fitted with a dedicated mortar mixing paddle (see GCP ESSELAC® WATERPROOFING SYSTEMS ESSENTIAL EQUIPMENT LIST). Some settlement may occur during storage and transportation so stirring should continue until the mix is fully homogenised.

Immediately prior to use add the full bag of aggregate ensuring that it is thoroughly stirred in and wetted out. Then add the correct amount of BPO to the stirred contents of the kit and mix thoroughly using a mechanical stirrer until all the BPO has dispersed. Scrape round the sides and base of the drum to ensure thorough mixing. The lower the temperature the longer dispersion takes, but is typically no more than one minute. Once the BPO is added this initiates the 'working life' of the material during which time it should be applied. Do not add fresh material to partially cured material.

Application

Application may proceed while the air and substrate temperatures are between 0°C and +30°C, provided the substrate is above the dew point.

DECSEAL® Wearing Course is applied in a single coat onto horizontal decks and in two coats onto verticals.

All vertical work should be completed first, extending out onto the deck horizontally by 75mm. This should be measured using a chalk line and masking tape positioned accurately. Do not apply the material above the level of any damp proof course that may be there. Small radiator rollers or brushes are best suited for application onto verticals and into edges and corners.

Once the DECSEAL® Wearing Course has been applied up a vertical remove any masking/edge tape before it cures.

On horizontal decks a 4mm serrated rubber squeegee is required to spread the material over the surface which is then followed by a paint roller to achieve the required surface finish. The direction of squeegee application should be at right angles to the direction of the roller to help easily remove rake marks in the system. The type of paint roller required will be determined by the texture depth of the substrate and the surface finish required. A medium pile roller will be suitable for most applications.

The coverage rate must be checked regularly by calculating the quantity of the material used against the area treated. Once applied allow to fully cure before trafficking.

Coverage

DECSEAL® Wearing Course should be applied to give a minimum coverage of 1.7kg/m² in one coat or 0.85kg/m² per coat on verticals. The required coverage rate will vary with surface texture and porosity. Application onto Stone Mastic Asphalt (SMA) and other types of porous asphalt may also lead to an increase in the required coverage rate. We would recommend that the surface texture of such substrates be measured using the Sand Patch technique prior to application (see GCP0082 VOLUMETRIC PATCH TECHNIQUE INFORMATION NOTE). Substrates with a high texture depth should be treated with METASET® Scratch Coat prior to applying the DECSEAL® Wearing Course as a lower cost option.

Colours

DECSEAL® Wearing Course is available in a range of standard, aesthetically pleasing colours. Please refer to the DECSEAL® Colour Chart. Bespoke colours are available subject to an assessment to determine whether the colour requested will remain stable under aged weathering. Bespoke colours are subject to a surcharge and a minimum production lead-time of 10 days.

Cleaning

All tools and equipment should be cleaned with acetone before the material is allowed to cure.

Packaging & Storage

DECSEAL® Wearing Course is supplied in the following quantities:

Grade	Pack Size	Resin	BPO
Summer Grade	25kg	24.83kg	170g
Winter Grade	25.08kg	24.83kg	250g

Aggregate - is supplied in 20kg boxes containing 8 x 2.5kg bags.

All components should be stored in cool, dry, protected conditions, out of direct sunlight and in accordance with the relevant site Health & Safety regulations. Storage temperature must not exceed 25°C. Do not store near naked flames or foodstuffs.

Stored in unopened containers, under the correct conditions, the components have a minimum shelf life of six months. If your product is more than six months old you must contact GCP before use.

Ancillaries

GCP produces a range of products to compliment the DECSEAL® Wearing Course system. These include:

- METASET® ResiFilla – a range of ESSELAC® resin based rapid curing repair and levelling compounds.
- SAFETRACK® LM – a range of ESSELAC® resin based flexible, bright, abrasion resistant line markings available in a variety of colours.
- METASET® Sealants – a range of flexible sealants utilising ESSELAC® resin technology for all joints and cracks.

Health & Safety

Please refer to our safety datasheets for further information.

General Information

DECSEAL® Wearing Course is just one of a wide range of specialist waterproofing, surfacing and repair materials manufactured and supplied by GCP. If you require any further information on this or any other of our products, please contact us or visit www.gcpat.com.

gcpat.com | Technical Services, Manchester, UK (+44 (0) 1565 633111)

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the end user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

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GCP Applied Technologies (UK) Limited, 487- 488 Ipswich Road, Slough, Berkshire, SL1 4EQ, UK

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