

RoK Polyurethane High Build Coating (Formerly Dr.Fixit Polyurethane High Build Coating)



UV RESISTANT, TWO COMPONENT, FLEXIBLE PIGMENTED HIGH BUILD POLYURETHANE COATING FOR INTERIOR AND EXTERIOR USE

Description

RoK Polyurethane High Build Coating is an ultra violet light stable, chemical resistant, flexible high build floor coating used to provide smooth and slip resistant finishes in industrial and commercial construction.

Typical Applications

- Car Parks
- Manufacturing Areas
- Warehousing
- Chemical Plants
- Roofing

Features

- Easy to apply
- Variety of finishes can be achieved from smooth to aggressive slip resistance
- Silk finish
- Hard wearing
- Flexible
- Seamless and chemical resistant

Packaging

20 ltr unit

Method of Application

1 SURFACE PREPARATION

- Concrete and screed should be at least 28 days old with a maximum relative humidity at the surface of 75% when measured with a hygrometer to BS 8201-81. Surfaces must be free of all contaminants and the dense surface laitance removed.
- Prepare the substrate by either shotblasting, scabbling or diamond grinding to remove surface laitance, unsound material, plaster, existing paint finishes, oil, grease and any other contaminants to provide a clean, open textured substrate.
- Vacuum to remove all dust and debris deposits created by the preparation process. Any making good should be carried out using a suitable Dr. Fixit repair mortar (Consult Technical Department).
- In some circumstances it may be necessary to prime the substrate with RoKprime EPSF epoxy primer.

2 MIXING

- The entire contents of part B (hardener) should be poured in to the part A (resin) and thoroughly mixed using a suitable slow speed electric mixer for one minute. The sides of the tin should then be scraped and mixing should continue for a further 2 minutes.

3 APPLICATION

- RoK Polyurethane High Build Coating should be applied as soon as the mixing process is completed using a medium pile roller at 0.2-0.3 ltr/m² per coat dependent on the nature and texture of the substrate. Either one or two coats may be applied dependent on the system specified. Subsequent coats can be applied after 8 hours and must be applied within 24 hours at 25°C.
- Alternatively a variety of slip resistant finishes can be sealed using RoK Polyurethane High Build Coating. Having broadcast the necessary adhesive base coats with aggregate, any excess should be removed and one or two coats of RoK Polyurethane High Build Coating applied as per the specification to achieve the desired texture. Should a high gloss finish be required, apply one coat of RoK Polyurethane High Build Coating followed by one coat of RoK Polyurethane Top Coat. Slip Resistant finishes will typically require 0.3-0.4 ltrs/m per coat, dependent on aggregate coverage and size. Line markings can be applied using RoKcoat CRSB after 12 hours.

4 CURING

- Allow the material to cure for a minimum of 24 hours prior to opening the treated area to foot traffic and 72 hours for vehicle traffic at 25°C.

5 JOINT DESIGN

- All movement joints in the substrate should be brought through the finished floor. Reform using a diamond saw and seal using a suitable Dr Fixit joint sealant

6 CLEANING

- All tools should be cleaned using RoK Thinners No.1.

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Note:

- There should be a fully functioning vapour barrier below all concrete substrates.
- Surface moisture content of the concrete substrate should be less than 4%.
- All coverages stated are theoretical. Actual quantities are dependent on surface texture and porosity, ambient conditions and application tools and procedures. It is the responsibility of the applicator to assess site conditions and conduct site trials if necessary to ascertain actual rates.

Theoretical Coverage

0.2-0.3 ltr per m² per coat dependent on specified system

Storage

When stored in dry conditions out of sunlight in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C will reduce shelf life and product performance.

Health and safety Precautions

This product is a water based emulsion of non-hazardous polymer. It is non-flammable and essentially non-toxic. Normal industrial hygiene procedures should be adhered to particularly when spraying and it is recommended that gloves and eye protection be worn. In case of skin or eye contact, thoroughly irrigate with water and seek medical advice if any irritation develops or persists. In the case of accidental ingestion, wash mouth out with water and seek medical attention. Spillages should be cleaned up immediately with water as they will leave a film on evaporation. See MSDS for further information.

TECHNICAL DATA	
Mix Density @ 25°C	1.28 ± 0.02 g/cm ³
Pot Life @ 25°C	45 Mins
Full Cure	7 days
Solids Content	75 ± 3 (ASTM D2240)
Hardness (Shore D)	70
Elongation at break	≥ 15% (ASTM D412)
Tensile Strength	≥ 8 N/mm ² (ASTM D412)
Tear Strength	≥ 15 N/mm (ASTM D624-12)
Bond Strength	≥ 2.0 N/mm ² (ASTM D4541)
Chemicals resistance	Good overall chemicals resistance (ASTM D 543)
UV resistance	1000 hours no loss of gloss, no colour change (ASTM G 53)
VOC Content	< 325 g/ltr

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