

Repcoat PU1

High performance one component polyurethane based protective coating



Description

Repcoat PU1 is a high quality UV resistant polyurethane coating. It is supplied as one component product ready for use. Repcoat PU1 can be applied externally and internally to concrete and asphalt surfaces. Repcoat PU1 will provide maximum protection to a variety of surfaces exposed to aggressive environments as in light industrial areas.

Applications

Repcoat PU1 is designed for external and internal application areas such as:

- Roads, motor ways and run ways.
- Car parks, playground and tennis court topping.
- Concrete surfaces, asphalt and tarmac.

Advantages

- Highly durable and tough wearing marking paint.
- Quick drying easy to apply (one component).
- High opacity and available in different colours.
- Excellent adhesion to all types of new (28 days) and old concrete.

Method of Use

Substrate Preparation

Concrete surfaces:

The Substrate should be dry, sound, clean and free from contamination. Surface Laitance should be removed by grit blasting or water jetting. All exposed blow holes should be filled with epoxy paste using Quickmast 341.

Steel surfaces:

All surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 2 1/2 before applying the Repcoat PU1 Primer.

Repcoat PU1 Primer:

is a 2 packs anti corrosion primer system is used to treat ready steel surfaces. Touch dry of the primer is 2 hours @ 25°C and over coating time internal is minimum 16 hours.

Technical Properties:

Density:	1.3 ± 0.05 @ 25°C
Colour:	Available in variety of colours like grey, dark grey, red, green and clear
*Initial drying time:	1 hr @ 25°C 0.5 hr @ 35°C
*Over coating time:	@ 25°C Minimum 4 hr for Repcoat PU1 Minimum 16 hr for Repcoat PU1 Primer
Minimum application temperature:	5°C
Solids: (ISO 3251 : 2008) % wt	70 ± 5%
Falling sand abrasion: ASTM D968 : 2005	> 50 ltr sand
Falling sand abrasion after accelerated weathering: ASTM D4587 : 2005 using Q.UV 4 hr, U.V/60°C/4 hr condensation/50°C for more than 300 hr	> 40 ltr sand
Directional reflectance: T.T.P – 115F : 1984 (luminance factor)	> 90%
Directional reflectance after accelerated weathering for than 300 hrs: (luminance factor)	> 88%
Water submersion for 24 hr @ 25°C ISO 1519 : 2000	Passed
Consistency: ASTM D562 : 2001 (krebs unit)	95 ± 5

Note: Drying time is dependent on film thickness, wind velocity, relative humidity and substrate temperature.

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Application

Repcoat PU1 can be applied by brush; roller or airless spray machine. The first coat should be applied to obtain a continuous uniform coating.

The second coat (if needed) should be applied after the overcoating time to achieve the maximum adhesion between the two coats.

Remarks

- ▲ If surfaces are subjected to moisture or rising damp, like basements or ground level floors, a water proofing membrane should be included to avoid possible blistering or flaking of the coating.
- ▲ For asphalt and similar surfaces, new asphalt must be aged at least 28 days before coating.
- ▲ Better not to apply the material if substrate temperature above 40°C.

Cleaning

All tools should be cleaned immediately after application using DCP Solvent. Hardened materials must be cleaned mechanically.

Packaging

Repcoat PU1 is available in 5 litre packs and 18 litre packs. Repcoat PU1 Primer is available in 5 kg packs (3.45 litre).

Coverage

Repcoat PU1 approximately 6 - 7 m²/ltr per 100 microns coat.

Repcoat PU1 Primer 7 - 10 m²/ltr to give 40 - 70 microns dry film thickness.

Storage

Repcoat PU1 has a shelf life of 12 months from date of manufacture if stored in dry conditions at a temperature of 25°C in original unopened Packs.

If these conditions are not met, this will shorten the pot life, so DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

If surfaces are subjected to moisture or rising damp, like basements or ground level floors, a water proofing membrane should be included to avoid possible blistering or flaking of the coating.

For further information refer to the Material Safety Data Sheet.

Fire

Repcoat PU1 is flammable.

Flash Point: ≈ 25°C.

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A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.