

Repcoat P

High performance polyurethane based protective coating



DESCRIPTION

Repcoat P is a high quality UV resistant semi gloss protective polyurethane coating. It is supplied as two component product ready for on site mixing and use.

Repcoat P can be applied outdoor and indoor to steel and concrete surfaces. Repcoat P will provide very good protection to a variety of surfaces exposed to aggressive environments.

APPLICATIONS

Repcoat P is designed to give external protection on areas such as:

- » Steel tanks.
- » Chemical processing areas.
- » Concrete walls and floors.
- » Protective UV coating and a sealer over wide range of epoxy systems.

ADVANTAGES

- » Excellent UV resistance.
- » Excellent resistance to splashes of a variety of chemicals and sewage water.
- » Exhibits good mechanical properties.
- » Available in different colours including clear colour.

METHOD OF USE

SUBSTRATE PREPARATION

Concrete surfaces:

- » The Substrate should be 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.

TECHNICAL PROPERTIES:

Colour:	Variable colours and clear
Solid content*:	
By weight	70 ± 5%
By volume	55 ± 5%
Mixed density*:	1.3 ± 0.1 g/cm ³
Pot life:	4 - 6 hr @ 25°C
Overcoating time:	24 hr @ 25°C
Full curing:	7 days
Tensile strength: ASTM D412	≥ 4 MPa @ 7 days
Elongation: ASTM D412	≥ 15% @ 7 days
Taber abrasion: (1000 g, 1000 cycle) ASTM D4060 CS17 wheel	≤ 120 milligram
Bond adhesion over C25/30 concrete: ASTM D4541	≥ 2.0 MPa @ 7 days (concrete failure)
Minimum application temperature:	5°C

* Mixed density and solid content for coloured Repcoat P.

PRIMING

Steel and concrete surfaces should be primed using Repcoat P Primer.

Repcoat P Primer is a three packs solvent based system consisting of base neutral, hardener and colour pack, and should be mixed mechanically (see mixing).

It can be applied by spray or roller at a wet film thickness between 120 - 160 microns (dry film thickness 70 - 80 microns) and left to dry completely before applying Repcoat P.

This is normally required 6 hours as minimum and 24 hours as maximum at 25°C, and 4 hours as minimum with 16 hours as maximum at 35°C.

Repcoat P

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. Stir the content of each component separately to disperse any settlement. Add the entire content of the hardener to the base and mix for 3 minutes and until uniform colour and consistency are achieved.

APPLICATION

Repcoat P 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 within the minimum overcoating time to achieve the maximum adhesion between the two coats.

CLEANING

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

PACKAGING

- » Coloured Repcoat P is available in 5 kg packs (3.85 litre) and 20 kg packs (15.40 litre).
- » Clear Repcoat P is available in 5 and 20 packs.
- » Repcoat P Primer is available in 5 kg packs (3.85 litre) and 20 kg packs (15.4 litre).

COVERAGE

- » Coloured Repcoat P: Approximately 0.15 - 0.25 kg/m² per coat to achieve a dry film thickness between 60 - 100 microns.
- » Clear Repcoat P: Approximately 0.06 - 0.14 litre/m² per coat to achieve a dry film thickness between 30 - 70 microns.
- » Repcoat P Primer: Approximately 0.12 - 0.16 litre/m² per coat to achieve a dry film thickness between 70 - 90 microns.

OCCASSIONAL SPILLAGE

Chemical Resistance after full cure (7 days @ 25°C), ASTM D1308 (Spot - test @ 1 hr)

Hydrochloric Acid 10%	R
Nitric Acid 10%	R
Sulphuric Acid 10%	R
Citric Acid 10%	R
Sodium Hydroxide 50%	R
Ammonia Solution 10%	R
Bleach Concentrate	R
Sugar (Saturated)	R
Sodium Chloride (Saturated)	R
Xylene	R
Engine Oil	R
Diesel	R
Mineral Oil	R
Ethylene Glycol	R
Detergents & Soaps	R

CHEMICAL RESISTANCE

Based on test method ASTM D1308, after 7 days immersion in the below chemicals.

Hydrochloric Acid 10%	R
Phosphoric Acid 20%	R
Diesel	R
Engine Oil	R
Brake Fluid	R
Tap Water	R

R: Resistant

RS: Resistant with slight discoloration

SS: Slight softening



Repcoat P

STORAGE

Repcoat P and Repcoat P Primer have 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 exceeded, DCP Technical Department should be contacted for advise.

CAUTIONS

HEALTH AND SAFETY

Repcoat P and Repcoat P Primer should not come in contact with skin or eyes. Goggles and gloves should be used.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advise if necessary.

For further information refer to the Material Safety Data Sheet.

FIRE

Repcoat P Primer is flammable.

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MORE FROM DON CONSTRUCTION PRODUCTS

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.