

Repcoat S

Solvent based high performance aliphatic acrylate protective coating system



DESCRIPTION

Repcoat S is ready for use, single component, aliphatic acrylate coating system for external and internal use over a variety of concrete and masonry substrates.

The system also includes an under coat of a silane-siloxane base which when used with Repcoat S will provide maximum protection against chloride ingress and carbon dioxide diffusion.

Repcoat S Primer is a penetrating hydrophobic silanesiloxane base which when applied will react with concrete and masonry producing a clear hydrophobic barrier that prevents the passage of water and hence protects exposed reinforced concrete structures from attack by chloride ions.

APPLICATIONS

Repcoat S is an excellent protective and decorative fair face coating which can be used for many applications including:

- » Retaining walls.
- » Bridge abutments.
- » External concrete of storage tanks.
- » Multistory buildings and villas.
- » Pre-cast elements and concrete cladding.
- » Commercial and Industrial complexes.

ADVANTAGES

- » Excellent resistance to carbon dioxide, chlorides (airborne and water borne).
- » Exceptional weathering and UV resistance.
- » Single component.
- » Available in a wide range of decorative colours.
- » Excellent waterproofing characteristics.
- » Water vapour permeable, allows concrete to breathe.
- » Colour stable, with excellent hiding power.

STANDARDS

Repcoat S complies with the requirements of BS EN 1504-2 for principles 1.3, 2.2 and 8.2.

TECHNICAL PROPERTIES:

Colour:	White, grey, buff, brown and many other colours
Density:	1.15 ± 0.10 g/cm ³
Solid content:	35 - 40% (by volume)
Touch dry time:	30 - 60 min @ 25°C
Overcoating time of Repcoat S Primer:	6 - 8 hr @ 25°C
Overcoating time between consecutive coats of Repcoat S:	4 hr @ 25°C 2 hr @ 35°C
Application temperature:	5 to 40°C

Performance Characteristics	EN 1504-2 Requirement	Measured Value
Adhesion bond: BS EN 1542	≥ 1.5 N/mm ² (for horizontal with trafficking)	≥ 3.5 N/mm ²
Capillary absorption: BS EN 1062-3	≤ 0.10 kg m ⁻² .h ^{-0.5}	≤ 0.02 kg m ⁻² .h ^{-0.5}
Permeability to water vapour: BS EN ISO7783-2	S _D < 5 m (permeable)	S _D ≤ 0.5 m (pass)
Carbon dioxide permeability: BS EN 1062-6	S _D > 50 m	S _D ≥ 70 m (pass)

METHOD OF USE

SUBSTRATE PREPARATION

Surface preparation is very important to get a good quality finish and best performance. Any surface to be coated must be clean, sound and free from oil, grease, curing compound, or any contamination. Any contaminants should be removed by light grit blasting.

Surfaces containing slight surface imperfection or blow-holes should be filled with a skim coat of cementitious repair mortar from DCP's Cemfair product range. Deep holes and defected areas should be repaired with cementitious products from DCP-Repair range.

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PRIMING

Repcoat S Primer should be spray or brush applied at a rate of 0.2 liter/m² and cured for at least 6 - 8 hrs before applying Repcoat S.

MIXING

Stir Repcoat S thoroughly prior to use.

APPLICATION

Repcoat S can be applied normally at temperatures between 5 – 40°C. Apply evenly with roller, brush or airless spray.

For airless spray 5 - 10% dilution is recommended, dilution should be done using DCP solvent PU.

A one coat or two-coat system may be used. Two coats should always be used on dark, absorbent and heavily textured surfaces and when full carbonation protection is required. Porous, rough and irregular surfaces will reduce coverage rates.

The first coat should be applied evenly by roller, brush or airless spray machine at a rate of 0.16 litre per square meter and allowed to dry. The second coat should be applied perpendicular to the first coat at the rate of 0.16 litre per square meter.

CLEANING

All tools should be cleaned immediately after application using DCP solvent PU.

PACKAGING

Repcoat S is available in 25 litre drums.
Repcoat S Primer is available in 18 litre drums.

COVERAGE

Repcoat S: 0.16 litre/m² per coat to achieve 60 microns dry film thickness.

Repcoat S Primer: 0.2 litre/m², depending on the substrate porosity.

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STORAGE

Repcoat S and Repcoat S Primer should be stored under cover at an ambient temperature range of 10 - 25°C.

SHELF LIFE

Repcoat S and Repcoat S Primer have a shelf life of 12 months from date of manufacture if stored in proper conditions and sealed drums.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

CAUTIONS

HEALTH AND SAFETY

As with all paints, care should be taken during use and storage to avoid contact with skin, eyes and mouth. Wear suitable protective clothing, gloves and eye/face protection.

Should accidental skin contact occur, remove immediately with plenty of clean water. If swallowed, seek medical attention immediately - do not induce vomiting.

For further information, refer to the Material Safety Data Sheet.

FIRE

Repcoat S and Repcoat S Primer, and DCP Solvent PU are flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

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.