

Repcoat S100

Solvent based high performance aliphatic acrylate protective coating



Description

Repcoat S100 is ready for use, single component, aliphatic acrylate coating for external and internal use over variety of concrete and masonry substrates. The system also includes an under coat of a silane-siloxane base which when used with Repcoat S100 will provide maximum protection against chloride ingress and carbon dioxide diffusion.

Repcoat S100 Primer is a penetrating hydrophobic silane-siloxane base which when applied will react with concrete and masonry producing a clear hydrophobic barrier that prevent the passage of water and hence protect exposed reinforced concrete structures from attack by chloride ions.

Applications

Repcoat S100 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

- ▲ Dual protective system, will form an Excellent Protective barrier against chloride ions, carbon dioxide and water borne.
- ▲ Durable - highly resistant to UV and weathering.
- ▲ Moisture vapour permeable, allows concrete to breathe.
- ▲ Available in a wide range of decorative colours.
- ▲ Single component.
- ▲ Colour stable, with excellent hiding power.

Method of Use

Surface 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.

Technical Properties:

Colour:	White, grey, buff, brown & many other colours
Volume solids:	35 ± 3%
Specific gravity:	1.24 ± 0.05
Over coating time for Repcoat S100 Primer:	5 hr @ 25°C
Carbon dioxide diffusion resistance:	> 250 m equivalent thickness of air
Carbon dioxide diffusion resistance:	> 500 mm equivalent thickness of concrete
Touch dry time:	30 - 40 min @ 25°C
Application temperature:	5 - 50°C
Freeze/thaw salt scaling (50 cycles)	Unaffected
Good quality concrete (control) ASTM C672	Severe scaling
Fire testing - Spread of flame: BS 476, Part 7	Class 1

The results achieved are for the Repcoat S system applied at the minimum recommended application rate.

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

Application

The prime coat should be sprayed or brush applied at the rate of 0.2 litre/m². It is recommended to apply two coats of Repcoat S100 at the stated rate of application. The first coat should be applied evenly by roller, brush or airless spray machine at a rate of 0.15 litre/m² and allowed to dry.

Repcoat S100

The second coat should be applied perpendicular to the first coat at the rate of 0.15 litre/m². Repcoat S100 may need to be thinned up to 5% by weight when using airless spray machine.

Cleaning

Tools and equipment can be cleaned with DCP-Solvent when wet. Dried Repcoat S100 should be removed using DCP-Solvent or mechanically.

Packaging

Repcoat S100 is available in 20 litre drums (24.8 kg). Repcoat S100 Primer is available in 20 and 200 litre drums.

Coverage

Repcoat S100 Primer: 0.2 litre/m² per coat.
Repcoat S100: 0.15 litre/m² per coat.

Storage

Repcoat S100 and Repcoat S100 Primer should be stored under cover at an ambient temperature range of 10°C and 25°C.

Shelf Life

Repcoat S100 has a shelf life of 9 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 advise.

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 S100 and Repcoat S100 Primer, and DCP primer 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.