

ConSeal DP

Concrete hardening and dustproofing impregnation

Description

ConSeal DP is based on an aqueous solution of lithium silicate to enhance surface penetration. It will react chemically with concrete to produce clear, dense, durable and abrasion resistant surfaces..

ConSeal DP can also be used as a surface hardener for crumbled floorings and surfaces in order to increase their strength and wear resistance.

Moreover eliminates the permeability of floorings and makes the cleaning easier.

Fields of application

ConSeal DP is used on concrete floors or cement screeds in places such as basements, warehouses, light traffic parking lots etc. Suitable for indoor and outdoor use.

Technical data

Form:	emulsion
Density:	1,08 kg/lit
pH:	11.5
Walkability:	after 24 hours (+20°C)
Full Hardening:	after 3-4 days (+20°C)
Liquid permeability: <i>EN 1062-3:2008</i>	≤ 0.2 kg/m ² .h ^{0.5}
Bond strength by pull-off: <i>EN 1542:2002</i>	≥ 1.5 MPa

Abrasion resistance, compared to untreated sample:
ASTM D4060
EN ISO 1570-1
(1000 g, 1000 cycle)
H22 wheel

50 - 65% reduction in weight loss

Direction to use

Substrate Preparation

The substrate must be clean, dry, structurally sound, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum penetration of **ConSeal DP** into the concrete surface. Surfaces contaminated by oil or grease should be treated with suitable chemical de-greaser then washed with clean water. Areas deeply contaminated by oils or grease, should be treated by hot compressed air. All contamination and laitance must be removed before application to allow for effective penetration.

New Concrete Surfaces

ConSeal DP may be applied on newly laid concrete immediately after final trowelling using a low pressure sprayer fitted with a 1.9 liters/minute (0.5 gpm) sprayer tip. Apply one coat of **ConSeal DP** at the rate of 12 - 14 m²/litres without producing puddles. If surfaces dry immediately, apply more materials as the surfaces should remain wet for 30 - 40 minutes. Allow treated surfaces to dry.

Old Concrete Surfaces

ConSeal DP can be applied to cured concrete of any age. Apply one coat of **ConSeal DP** at the rate of 9 - 10 m²/litres using a low pressure



sprayer, brush or roller until full impregnation.

For very absorptive surfaces it is usually required to apply a second layer after the first one has dried. more materials as the surfaces should remain wet for 30- 40 minutes.ne has dried.

Do not apply excess material to avoid material puddling. Use soft bristle broom to evenly spread **ConSeal DP** and ensure uniform wetting.

Packaging

ConSeal DP is available i plastic containers of 1 kg, 5 kg and 20 kg.

Shelf life & storage

12 months from production date if stored in original, unopened packaging, in temperature between +5°C and +35°C. Protect from direct sun exposure and frost.

Remarks

- During application the ambient temperature and the temperature of substrate should be between +5°C and +30°C.
- The successive layer can be placed when **ConSeal DP** is completely dry.
- **ConSeal DP** is almost transparent after drying. Usually it should be tried to the surface before the application, because it may alter the appearance of the surface.
- **ConSeal DP** is not suitable for permanent immersion to water. The uneven surfaces should be properly treated with a suitable repairing material. Consult the Technical Support Department.

Health & safety

ConSeal DP should not come in contact with skin and eyes, however any accidental splashes to the eyes must be rinsed with clean water and seek medical advice. Suitable protective gloves and goggles should be worn.

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

Notes

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