Product Code: R308

DIRT DEFENCE®

CE

CE Class II Sealer

A mixture of octyltriethoxysilanes isomers, used in undiluted form for the hydrophobic priming and impregnation of concrete and reinforced concrete.

Class II sealer is recommended for the hydrophobic impregnation and priming of concrete and reinforced concrete in road, bridge and building construction. It is also ideal as a waterproofing concrete admixture.

CE Marking complies with EN 1504-2: 5.3 products/systems for theprotection/repair of concrete structures.

How to Use

Concrete should not be impregnated until at least four weeks after it has been produced so that the setting of the cement is not affected.

New surfaces that are still unsoiled must be cleansed of coarse particles and dust deposits, if necessary, using compressed air. Surfaces already weathered, and those heavily soiled by oil, rubber residue, etc., must first be cleaned using superheated steam or high-pressure water before commencing treatment. It is imperative that the water used be siphoned off immediately to prevent saturation of the concrete.

Impregnation should always be performed on superficially dry concrete, i.e., when the surface of the concrete appears evenly dry, no more damp patches are visible and the moisture content equilibrium is established. To this end, moisture in the surface zone of the concrete is measured using a suitable technique.

The surface-zone moisture content of the concrete (from the surface to a depth of 20 mm) should not exceed 4 wt%. Evenly apply R308 to the building material in two coats, wet-on-wet. The two coats are absolutely essential to prevent the formation of defects in the impregnated surface.

Do not allow puddles to form. Apply by flow coating at reduced pressure. A lambskin roller may be used afterward for more even coverage.

In the event of unexpected rain, cover surfaces already impregnated and halt all further impregnation. R308 should never come in direct contact with bitumen. The resistance of insulating materials to R308 must be tested on a case-by-case basis for the required temperatures.

Important

Do not apply to hot surfaces or in strong direct sunlight. Not suitable for engineering bricks, polished, glazed and non porous substrates.

Precautions for use:

For Health & Safety instructions, first aid measures, spillages and disposal instructions, see separate Health & Safety Data Sheet (MSDS).

Benefits

- Excellent penetrating power
- No solvents, environmentally compatible
- Low volatility
- High resistance to alkalis

Treated concrete will have the following permanent properties:

- Dramatic reduction in chloride and water absorption
- No loss in breathability
- Improved durability against freeze-thaw de-icing salt stress
- Enhanced durability
- Provides good adhesion for paints

In the construction material, R308 reacts with atmospheric moisture and / or the water in the building material's pores, eliminating alcohol. The active thus substance formed greatly reduces the concrete's absorbency in the active zone (penetration depth after additional treatment), but without blocking any pores or capillaries. The impregnated building material retains very high water vapor permeability.

Product Characteristics

Colour	Colourless / Clear
Silane Content	Approx. 99%
Form	Liquid
Density @ 20°c at 1013hPa	0.88 g/cm³
Shelf Life	24 Months from the date of manufacture in the original unopened container
Flash Point	42°c
Viscosity, dynamic @ 25°c	1.9 mPa.s
Coverage	4-6m2 per litre depending on the porosity of the surface

Curing

Allow 2 hours for touch dry. Fully cured after 48 hours. Longer curing periods may be required when applied in cooler conditions.

Storage

Keep out of reach of children. Keep in a dry place between 5°C and 30°C in the original container.

Cleaning of Equipment

Remove as much excess product as possible and clean tools and equipment immediately after use with soapy water.

CE

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EN 1504-2:2004

Surface protection products - hydrophobic impregnation
EN 1504-2: ZA.1A

Depth of penetration	**Class II: ≥ 10 mm**
Water adsorption and resistance to alkali	**Absorption ratio** **<7,5% compared with the untreated specimen** **<10% after immersion in alkali solution**
Drying rate for hydrophobic impregnation	**Class 1: > 30%**
Loss of mass after freeze-thaw salt stress	**Fulfilled (weightloss at least 20 cycles later than untreated sample)**
Release of dangerous substances	**NPD**