

Chemsil

Transparent Waterproofing Treatment

Description

Chemsil products are clear, transparent, hydrophobic liquids that deeply penetrate the substrate surface to protect, preserve and waterproof. Chemsil does this by condensing deep within the substrate structure. Chemsil ZT300 grade is also oleophobic (oil resistant).

Uses

There are two solvent-based grades (Chemsil A1 and Chemsil XBC) and one water-based grade (Chemsil ZT300).

- Chemsil A1 is used for brick, stone, old concrete, sandstone and as a horizontal injection, chemical waterstop barrier against rising damp.
- Chemsil XBC is used for concrete, concrete masonry, precast concrete, cement render, exposed aggregate, tilt-up panels or concrete pavers.
- Chemsil ZT300 is used for all porous cementitious or natural mineral surfaces. Makes porous flooring or paving such as concrete, slate, terracotta, unglazed tile, sandstone etc water and oil resistant.

Chemsil grades are used in the following applications:

- Anti-blooming sealer to walls and paving.
- Coloured concrete and masonry.
- Injection DPC to walls and footings.
- Single skin brick and block construction.
- Off-form concrete façades.
- Waterproofing to render under paint.
- Non-critical car park decks and slabs.
- Preserve friable stone-sandstone etc.

Features

- Chemically bonds with the substrate
- Molecule 60 times smaller than the pores
- Long life span, unaffected by weather
- Prevents efflorescence and dirt pick-up
- Prevents concrete cancer & carbonation
- Prevents electrolytic corrosion
- Prevents algae and mould growth
- Non-yellowing, no change in appearance
- ZT300 grade is oleophobic
- Deep penetration and multi-functional
- Allows surface to breathe
- No "Wet Look" finish

Typical Properties

Colour	Clear
S.G.	0.8-1.0 g/ml
Surface Tension Decrease	Approximately 70% (Hydrophobic effect)

Preparation

Surfaces must be clean, dry and free from dust, loose matter, oil, grease or other contaminants.

Make good all surface defects in concrete or render with Chemind Chembond modified mortar. Concrete should be cured 28 days and render 7 days. Use Chemind Chemflex PU sealant to fill movement joints and gaps. Remove any laitance on concrete by brushing or scrubbing with water.

Application

- Only apply Chemsil A1 and XBC to clean, dry surfaces.
- Chemsil ZT300 may be applied to damp substrates.
- Use a low-pressure spray; soft bristled broom, roller or brush.
- One coat of Chemsil may be sufficient for dense substrates; however two coats are normally required.
- Vertical faces should be coated from top down. Apply the required Chemsil grade until it begins to run down wall and maintain this "wet flow" until surface is totally saturated.
- Flood horizontal areas uniformly with Chemsil to saturate surface. Allow 4 - 6 hours between coats to thoroughly dry.

NOTE

Chemical interaction and condensation of Chemsil may take up to 8 days dependent on substrate, before maximum performance characteristics are fully effective. If over painting of Chemsil treated surfaces with emulsion paint is required, it is necessary to stipulate that the Non-catalysed grade of Chemsil is used. Normal Chemsil grades may reject water based paints.

Precautions

Chemsil A1 and XBC liquids are flammable. Chemsil ZT300 is water based. Use only in well ventilated areas. Protective gloves and eye protection should be worn during use.

Coverage

Chemsil is ready to use straight from the container. Product application rate is approximately 4 - 5 m²/litre per coat. Actual coverage may vary significantly depending on porosity and texture of surface. Highly porous surfaces may require a rate of up to 1 litre/m².

Packaging

All Chemsil grades are packed in 20 litre pails and 200 litre drums.

Storage

All Chemsil grades should be stored in unopened containers in a cool dry place.

Chemsil A1 and XBC grades must be kept away from any fire hazards or ignition sources.

Shelf Life

Unopened containers of Chemsil will have a shelf life of 12 months from date of manufacture, when stored as recommended.



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