CHEMICAL HOUSE®

PRODUCT DATA SHEET

SHIELD PLUS

DESCRIPTION

SHIELD PLUS is a fluororesin impregnating agent dispersed as a microemulsion in water.

SHIELD PLUS is environmentally friendly, clear-drying, fluoro-acrylic modified, designed for the protection of new or old concrete.

It has almost zero VOC and provides exceptional stain proofing and waterproofing to new or old concrete.

SHIELD PLUS is used to waterproof and stainproof concrete viz., screeded, coloured, stenciled, and pavers from commonly encountered contamination, e.g. vegetable, mineral oils, coffee, tea.

SHIELD PLUS also functions well on terracotta, and other unglazed clays used for flooring, driveways etc.

SHIELD PLUS can also be used to sealing natural and synthetic stone, adobe bricks, straw reinforced clay plasters to assist weatherability of the surface.

SHIELD PLUS does not adversely affect the substrate's visual appearance, physical characteristics, surface traction quality, or surface bond quality, meaning SHIELD PLUS can effectively be used to enhance the stain resistance any cement based concrete installation, whether traffic-bearing or otherwise.

It is NOT AFTER TRADES FRIENDLY and should not be used if the surface is to have line-marking etc. applied.

ADVANTAGES

- Significant reduction of water adsorption.
- Significant reduction of oil adsorption.
- Significant reduction of water bourne dirt pick-up.
- Reduction of frost damage.
- Significant reduction of mildew, moss, and lichen growth.
- Restored thermal properties.
- Anti-graffiti properties.
- Does not impart the "wet look" to treated surfaces or contribute to surface gloss (when correctly applied).

SUBSTRATE

The proposed surface to be treated must be dry, unsealed, clean of mortar etc. and of a porous nature.

Listed below are some of the substrates successfully treated with a guide of the expected coverage when applied to achieve maximum performance.

COVERAGE

- Concrete Pavement 1-4 m2/litre
- Natural stone (including sandstone) 2 - 4 m2/litre
- Marble, Limestone, Coral Stone 2 - 4 m2/litre
- Clay brick walls 2 - 4 m2/litre
- Terracotta tiles 1 - 3 m2/litre
- Slate 1 - 4 m2/litre
- Clay Plasters 1 - 2 m2/litre

Remember these figures are a guide only, each individual substrate can give different results.

Substrate saturation is essential to give good quality results.

SURFACE PREPARATION

It is essential that all surfaces to be impregnated should be dry, unsealed* , clean of mortar and free from dust, paint, plaster etc. and of a porous nature.

Any cracks larger than 0.3mm will not be "bridged" and consideration given as whether they should be regrouted prior to commencement of the treatment.

At least 6 hours rain free drying time is required after application.

*Do the water test. That is ; dip you finger into a glass of water and from a height of approx. 100mm allow 2 drops of water to land together on the concrete.

Wait for approx. 60-90 secs to see if the water penetrates in that time (no exceptions).

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If not, there is a probability of some type of curing compound already on the concrete, or a preseal on the stone, which will reduce the effectiveness of the treatment, if not removed.

DIRECTIONS

Before commencing shake the drum to ensure no separation of the resin has occurred.

Good technique is a "must" for good results.

The substrate to be treated should be flooded using a low-pressure spray only (an airless spray or compressed air sprayer operating with no air pressure at the gun tip.)

High-pressure sprays should be avoided as this dilutes the amount of product used and actually reduces the amount of material on the substrate, reducing efficiency and efficacy of the treatment.

In windy conditions, if the work must be carried out, make sure the spray is not carried to areas that could be affected e.g., windows etc.

For work carried out around glass or raw aluminum it is best to mask up or use a board as a barrier.

SHIELD PLUS will etch glass and raw aluminum.

CAUTION

SHIELD PLUS cannot be used as a primer on any surface; it is a finished treatment.

Application of any film forming product over SHIELD PLUS will result in delamination (peeling) of that finish.

Use in exterior and public area applications should be supported with regular cleaning maintenance.

CLEAN UP

Equipment should be washed in water while wet, or in BC40 when dry.

AFTER CARE

Soiling of the surface should be removed at the earliest possible time to reduce the likelihood of accident.

Use only a dilute solution of a pH neutral detergent and warm (not hot) water to remove any spills from the treated surface.

Wine spills should be diluted with water and removed by absorbing into a cloth, no longer than 8 hours after the spill.

Caution: Use of strong solvents, solvent based cleaners or highly alkaline or cidic detergents may compromise the treatment.

STORAGE

If stored in a cool dry place, with the cap firmly secured the expected shelf life of SHIELD PLUS is 12 months from manufacture date.

SAFETY

Refer to Material Safety Data Sheet.

PACKS

5L, 10L, 20L, 200L, 1,000L.

This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Chemical House does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether in accordance with any advice, specification, recommendation, or information given by it.

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