

Estop Sealproof Blue

Crystallization Penetrating Aids and Waterproofing of Old or New Concrete System

Description

Estop Sealproof Blue crystalline capillary waterproofing system is a product which contains a blend of selected inorganic crystals, penetrating aids and defoamers formulated for application by spray, roller or brush.

Estop Sealproof Blue when applied to aged or green concrete penetrates deeply into the capillary pores of the concrete, reacts with free lime within the concrete to make a calcium silicate gel (CSH) that is insoluble.

Estop Sealproof Blue stops water from either the positive or negative side of the concrete slab when the seepage is not caused by cracking or other structural flaws. In addition, **Estop Sealproof Blue** also aids in abatement of dampness odors caused by bacteria in ground water or flood water.

Uses

Estop Sealproof Blue is used for waterproofing new or aged concrete against either positive or negative hydrostatic water pressure.

Estop Sealproof Blue penetrates deeply (2–10 mm) into capillary voids and pores of the concrete and “crystallize” as part of the concrete. It is a concrete treatment and not a surfaces coating. It does not change the appearance of the concrete and it will not discolour or separate. **Estop Sealproof Blue** works equally well on old or new concrete, above or below grade, and is intended for use on poured in place walls, preformed tilt-ups, bridges, road surfaces, pipes, basement walls, foundations, sidewalks and slab.

Advantages

- Easily apply by spray, brush or roller to new or aged concrete.
- Effective waterproofing system in sealing, hardening, and dust-proofing of concrete surfaces.
- Can be applied to damp concrete with no standing water.
- Penetrate deeply into capillary voids and pores and crystallize as part of concrete.
- **Estop Sealproof Blue** treatment is permanent and will raise surface pH.
- Protect concrete surfaces from abrasion, freeze-thaw damage and chloride ion intrusion.
- Cost effective way of waterproofing system.
- Prevents efflorescence, which will improve the bonding of cementitious toppings, coating and paints.

Physical Properties

The values given below are average figures achieved in laboratory test. Actual values obtained on site may show minor variations from those quoted.

Density, kg/L	1.10 ± 0.05
Solubility in Water	100% soluble
Appearance and Odor	Violet Blue No odour. Nontoxic
Solid Content, %	30 – 35%
Permeability-Pressure Applied on Positive Side DIN 1048: Part 5 :1991	No water penetration
Permeability-Pressure Applied on Negative Side DIN 1048: Part 5 :1991	No water penetration
Water Absorption,% Immersion in water for 48 hours ASTM C642-21	< 2%

Application Instruction

Surface Preparation

Surface must be able to absorb water, to be able to absorb **Estop Sealproof Blue**. Surface may be wet, moist or dry, but not having puddles or running water.

Concrete surfaces must be clean, sound and free of oil, dirt, laitance and any other such contaminations which may interfere with the application process.

High pressure water jetting is the preferred method of surface preparation because mechanical cleaning, surfaces saturation and substrate roughing are simultaneously achieved.

Application

Wet the surface before applying **Estop Sealproof Blue** to allow its penetration. Thoroughly mix **Estop Sealproof Blue** before applying by airless sprayer, hand-pump-type garden sprayer, roller, brush or squeegee.

Agitate while applying to keep ingredients in suspension and from setting out. If **Estop Sealproof Blue** puddles or beading is present, blow off with air, squeegee, and wipe up with cloth.

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Do not allow any **Estop Sealproof Blue** to dry on surfaces, as it will cure into a hard white crystal powder that requires power grinding to remove.

After application, flush the treated surface with plenty of water for curing and also to remove excess **Estop Sealproof Blue**.

Curing and Additional Waterproofing System

Estop Sealproof Blue will penetrate and form crystal gradually in pores and voids in concrete.

In some circumstances, where additional waterproofing membrane system, such as **Estokote Flexi**, **Estoflex GP**, **Estoflex SM** etc, were to apply on top of **Estop Sealproof Blue**, allow the later to cure for at least seven (7) days, before proceed with the additional waterproofing system.

Limitation

Apply at temperatures between 27 - 35°C. Do not apply to glass, aluminium, porcelain, enamel, clay brick or other clay based products. Do not apply on painted surfaces.

Packing & Size

Estop Sealproof Blue	20 L Pail
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Coverage

Estop Sealproof Blue	5m ² /litre for rough surface
	10m ² /litre for smooth surface

Technical Support

Denka offers a comprehensive range of high performance, high quality of product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Storage

Estop Sealproof Blue should be stored in original unopened packaging in dry conditions.

Estop Sealproof Blue has a shelf life of 12 months.

Precautions

Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed. Seek medical attention immediately do not induce vomiting.

Additional Information

Denka Construction Solutions Malaysia Sdn Bhd offers a wide range of complementary products which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.



Denka Construction Solutions Malaysia Sdn Bhd
(591858-U)

No. 18, Jalan Utas 15/7, Seksyen 15,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +603 5510 8810 Fax: +603 5518 8202

www.denka-cs.com

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