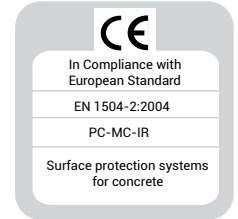


**CONCRETE CRYSTALLINE MOISTURE AND VAPOUR BLOCKER**

- High moisture and vapor blocking performance
- Resists hydrostatic pressure
- Enhances adhesion properties of subsequent coatings
- Easy to apply, just spray with low pressure sprayer
- Permanent and active
- No film formation or appearance change

**PRODUCT DESCRIPTION**

VAPORSTOP is a water based crystallization product specifically designed to permanently block moisture and vapor transmission in concrete or masonry structure up to 9.5 kg (21 Lbs) /1000 f² within 24 hours. The product is applied on concrete surfaces that are a minimum of 7 days older and are well suitable for Industrial floors that are to take subsequent coatings .It also increases the compressive strength and has high resistance to cracks, chemicals and freeze thaw effects.

PROPERTIES

SUPERSHIELD VAPORSTOP when spray applied would take advantage of its low viscosity, seeps into the pores and capillaries of the concrete by a capillary action and the active components in the product moves further deep into the concrete using the moisture presence by pressure of osmosis. Once the active components are made available for the byproducts of the cement inside the concrete matrix, it forms non soluble crystals which are capable of blocking moisture and vapor even under high hydrostatic pressure .The active components of SUPERSHIELD VAPORSTOP lie dormant inside the concrete during the dry condition, and is fully reactivated when in contact with moisture or vapor at any later stages.

AREAS OF APPLICATION

SUPERSHIELD VAPORSTOP can be used as a treatment and protection against moisture and vapor associated problems for concrete substrates.

RECOMMENDED FOR

- Concrete floors
- Foundations slabs
- Reservoirs
- Industrial plants
- Walls and floorings in parking garages
- Swimming pools
- Elevator pits
- Subway tunnels

**TECHNICAL DATA**

Product Code	SCP103
Colour and Appearance	Transparent - Liquid
Density	1.02 Kg/litre
Water Permeability - DIN 1048	Treated samples showed 113% better performance than untreated
Chloride Ion Penetration - ASTM C1202-3	Treated samples showed 112% better performance than untreated

Performance characteristics for CE certification according to EN 1504-2:2004, 2+

Test type	Standards	Performance
Depth of Penetration	EN 14630	Class II > 10mm
Water Absorption & Resistance to Alkali	EN 13580	Absorption ratio < 7.5 % compared with untreated specimen < 10 % after immersion in alkali solution
Drying Rate Co-efficient	EN 13579	Class I > 30%
Loss of mass after freeze thaw test	EN 13581	Loss of mass 20 cycles later than in non-impregnated samples
Dangerous substances		Complies with EN 1504-2, 5, 3



APPLICATION GUIDELINES

SURFACE PREPARATION

SUPERSHIELD VAPORSTOP can be applied on a damp surface but the surface should be predominantly dry as absorption of the material from the surface would be better on a dry substrate. Concrete surfaces must be clean and sound prior to the application of VAPORSTOP. Proper cleaning will open the surface pores and capillaries in order to enhance the penetration process. The use of compressed air or brushing is recommended to remove all loose particles and dust from the surface. The use of special concrete cleaning agents may be necessary for areas contaminated with oil.

MIXING

Agitate VAPORSTOP in a drum or pail to assure proper dispersion of solids. VAPORSTOP are supplied in ready to apply form and should not be diluted by any means.

APPLICATION

SUPERSHIELD VAPORSTOP should be applied in tow coats by means of spraying or brushing. For large-scale applications, it is recommended to spray the product using a heavy-duty commercial sprayer. Do not apply VAPORSTOP on exterior substrates, if precipitation is forecasted within two hours of coating completion. If precipitation occurs during application, discontinue application process immediately however areas already treated does not require any protection or re-application.

COVERAGE

It is recommended to apply SUPERSHIELD VAPORSTOP as a single coat at a dosage rate of 4.9 m²/ Lit (200 ft²/gal) per coat. The coatings should be applied evenly and the substrate should be covered completely with the coating.

LIMITATIONS

SUPERSHIELD VAPORSTOP must not be applied if the temperature falls below 5°C or if raining. As with all impregnation materials and processes, the surface to be treated must be free from any contamination that might reduce uptake of the impregnate. Concrete substrate that is to be treated with SUPERSHIELD VAPORSTOP should be a minimum of 7 days old.

APPEARANCE AFTER APPLICATION

The concrete treated with SUPERSHIELD VAPORSTOP may turn dark for an initial period but will restore to its original color once dried out completely. Excess spraying of material may form white powder on the surface after drying and if necessary this can be washed of and special measures are not required in respect to the disposal of the wash water as the product is non-toxic.

CURING

SUPERSHIELD VAPORSTOP should be allowed to cure @ 23.9° C (75° F) for a period of 4 hours before opened for traffic

MARKING AND COATINGS

The VAPORSTOP treated concrete substrate can be marked or coated after a period of 4 days @ 23.9° C (75° F). Note: Appropriate test that is required to apply subsequent floor coatings should be carried out.

HEALTH AND SAFETY

SUPERSHIELD VAPORSTOP contains chemicals, which may cause skin irritation. For personal precaution, protective gloves and goggles are recommended to be worn during handling of this



APPLICATION GUIDELINES

product. If product gets in contact with the eyes, flush immediately with clean water and seek medical assistance if symptoms prolong.

STORAGE

SUPERSHIELD VAPORSTOP must be stored under room temperature. Cold temperatures may cause the product to crystallize. When stored in a dry place in

unopened, undamaged original packaging, shelf life is 12 months. Do not allow product to freeze. Repeated freezing and thawing might cause damage for the product.

PACKAGING

Available in 25 ltr carbouys, 200 ltr drums and 1000 ltr IBC.