

Pen Shield Ultra

Solvent based penetrating sealer for masonry surfaces

DESCRIPTION

Pen Shield is a SILANE/SILOXANE, invisible impregnating sealer used to protect natural stones, concrete pavers, tiles, sandstone, limestone, brick and concrete from the damage caused through water borne contaminants.

Pen Shield provides long lasting protection while not altering the look from the original product. A test sample should always be prepared and allowed to cure prior to proceeding.

PRODUCT FEATURES & BENEFITS

- Excellent penetration
- Minimises efflorescence
- Reduces mould growth
- Allows trapped moisture to escape
- Doesn't alter the texture or look of the original surface
- Suitable for external use
- Excellent chloride ion salt resistance
- Can be over coated

TYPICAL APPLICATIONS

Pen Shield can be used in a variety of applications, swimming pool surrounds, urban landscaping, building facades and retaining walls, patios, walkways and entertaining areas.

APPLICATION RATES

Total application rates are typically between 3 - 6m² per litre for concrete surfaces, and 8-40m² per litre for natural stone surfaces depending on the porosity of the substrate. (Contact manufacturer for more details).

PACK SIZES

Pen Shield is available in 200ltr and 20ltr containers.

PERFORMANCE PROPERTIES

COLOUR	CLEAR, COLOURLESS LIQUID
FINISH	INVISIBLE PENETRATING FILM
VOLUME SOLIDS	APPROX 6%
SPECIFIC GRAVITY	0.80KG/LITRE
RECOAT TIME	2 HOURS AT 20°C
POT LIFE	INDEFINITE (DRIES BY SOLVENT EVAPORATION)
FULL CURE	24 HOURS @ 20°C
RESISTANCE TO CHLORIDE ION PENETRATION	>92%
RESISTANCE TO WATER ABSORPTION	>85%

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SURFACE PREPARATION

Concrete substrates must be cured in accordance with relevant standards; the concrete must be cured for a minimum of 28 days prior to the application of Pen Shield.

All surfaces to be sealed must be clean, dry and free of all contaminants prior to the application of Pen Shield; this includes curing compounds and release agents.

APPLICATION OF PRODUCT

- Apply the product to the substrate using a low-pressure sprayer, brush or lamb's wool applicator or similar, ensuring the entire surface is wetted, ensure no product comes in contact with surrounding areas.
- Allow sufficient time for penetration (20-45 minutes), ensure no ponding of sealer occurs, remove all excess material after 30 minutes using an absorbent white cloth.
- Any excess material left on the surface may lead to discolouration of the substrate.
- When the surface becomes touch dry, after a minimum of 15 minutes - 1 hour, apply a second coat of Pen Shield as described above. Do not allow the surface to fully dry between applications.

PRECAUTIONS

- Do not apply to damp surfaces.
- Protect surrounding areas from overspray, buildings, plants, drains etc.
- Wear suitable protective wear, solvent resistant gloves, protective clothing, safety goggles and organic vapour respirator.
- Do not apply Pen Shield over previously coated surfaces.
- Protect sealed surface from moisture for a minimum of 6 hours.
- Avoid applying Pen Shield in windy conditions.
- Apply Pen Shield between 10°C - 35°C.

STORAGE

- Keep Pen Shield stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Pen Shield has a shelf life of 12 months in an unopened container.
- Ensure partly used drums are correctly sealed.

FIRE

Pen Shield is flammable.

SAFETY PRECAUTIONS

- Wear appropriate protective equipment including clothing, gloves, appropriate respiratory mask and goggles.
- If poisoning occurs, contact doctor or Poisons Information Centre.
- If contact with skin occurs, remove contaminated clothing and thoroughly wash skin.
- If swallowed do not induce vomiting, give a glass of water.
- If in eyes, hold eyes open and flood with water for at least 15 minutes then see doctor immediately.
- For further information refer to the relevant Material Safety Data Sheet.

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IMPORTANT INFORMATION

The information and recommendations relating to Pen Shield are given based on current knowledge and experience. Due to variances in material substrates and site conditions no warranties implied by law or fit to purpose of the product can be implied. We accept no responsibility for loss or injury due to the incorrect handling or improper use of the product, limiting the cost of our liability to the replacement product cost only. Always refer to current Product Technical Data Sheets.

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