

MasterShield PEL 355 (formerly MasterProtect 355)

Silane/Siloxane based hydrophobic impregnant

Material Description

MasterShield PEL 355 is a one component, transparent, penetrating silane/siloxane impregnant. The product reacts chemically with a mineral substrate to form a surface that is repellent to water yet still permeable to water vapour. **MasterShield PEL 355** protects and preserves the substrate without altering the natural surface texture or colour.

Areas of Application

MasterShield PEL 355 is recommended for weatherproofing exterior building brickwork, concrete, cement rendered concrete blocks, natural or cast stone etc.

Characteristics and Benefits

- Economical
- Deeply penetrating
- Permeable to vapour
- Inhibits mould growth
- Reduces unsightly staining
- One component, easy to apply
- Easily re-coated
- Protects against rain penetration
- Inhibits chloride ingress
- Reduces risk of efflorescence
- Effective on old and new surfaces
- Helps preserve natural colour and texture

The **MasterShield PEL 355** molecules are very small and highly mobile. The relatively slow solvent evaporation rate at 25°C allows it to enter even the smallest pores.

Its water vapour permeability allows the surface to "breathe" naturally. The application of **MasterShield PEL 355** greatly extends the life and colour retention of brickwork.

MasterShield PEL 355 can be used as an additional priming coat prior to acrylic protection barriers such as MasterShield AC 160 against CO₂ and SO₂ attacks.

Properties

Supply form	Liquid
Colour	Clear
Density	Approx. 0.8
Solvents	Liquid hydrocarbons
Flashpoint	Approx 36°C
Storage temperature	Below 30°C
Application temperature	Above dew point

Application

Substrate Condition

Surfaces should be dry and free from dirt, grit, dust, grease etc. Application to wet substrate will prevent penetration and result in poor adhesion. Paints, form release agents, curing compounds, moss, laitance, algae, etc. must be removed.

Allow at least one month before applying **MasterShield PEL 355** to new concrete or masonry surfaces.

To ensure optimum water repellency for mortar block masonry which has a pitted surface, rub in a colour matching mortar (1 part cement: 2 parts fine sand) modified with MasterEmaco P 157 and allow to dry for two days before applying **MasterShield PEL 355**.

Repair all cracks and repoint faulty mortar joints prior to application. Mask glass, asphalt, bitumen and oil painted surfaces. Remove splashes promptly with Mineral Turpentine.

Mixing & Priming

Not required.

Method of Use

Apply direct from container - do not dilute. Wear impervious gloves and goggles during application. Apply by brush or low pressure (approx. 40-70kPa) spray equipment. Flood the surface, don't brush out like paint (causes bubbles or incomplete penetration).

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Apply evenly with steady strokes over the entire surface. One coat is normally required if application is liberal and thorough and surface is reasonably non porous.

On very porous material, it may be necessary to apply a second coat or treat porous surfaces with a cement based paint prior to application of **MasterShield PEL 355**.

When applying two coats of **MasterShield PEL 355**, apply wet-on-wet. Do not apply **MasterShield PEL 355** to concrete surfaces subject to vehicular traffic. If you require to seal areas subject to traffic, please consult your local Master Builders Solutions Technical Sales Representative. **MasterShield PEL 355** is invisible once dry - take adequate precautions to ensure entire surface is covered if application is interrupted. **MasterShield PEL 355** is not recommended for application to below ground surfaces subject to hydrostatic pressure. **MasterShield PEL 355** is NOT a cure for rising damp or "salt damp". Other dampcourse treatments must be employed for this.

Tools

For application use a brush or low pressure sprayer. Do not use atomising sprayers.

Curing

At 25°C the water repellent properties fully develop in approximately 24 hours.

Estimating Data

Coverage depends on absorbency and porosity of the substrate. On normal brickwork, coverage is approximately 4m² per litre. On very porous substrates, consumption may be up to 2m² per litre, on only slightly absorbent substrates it may reduce to 6m² per litre per coat. The quantity of material required for the second coat, when required, is approximately half of the quantity required for the first coat.

Cleaning

Tools should be cleaned with mineral turpentine, or white spirit immediately after use.

Packaging

MasterShield PEL 355 is available in 20 litre pails.

Storage & Shelf Life

MasterShield PEL 355 can be stored in tightly sealed original pails for 12 months, if kept dry and at moderate temperatures. Store away from sources of heat or naked flames. It is important to reseal containers after use to prevent deterioration of the product by evaporation.

Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

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Disclaimer

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STATEMENT OF RESPONSIBILITY

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MB Solutions Australia Pty Ltd

ABN 69 634 934 419
Suite 102, 2 Burbank Place
Norwest NSW 2153

Freecall: 1300 227 300

www.master-builders-solutions.com/en-au

MB Solutions New Zealand Ltd

45C William Pickering Drive
Albany, Auckland
New Zealand

Phone: +64 9 414 7233

Emergency Advice:

1300 954 583 within Australia (24hr)
0800 001 607 within New Zealand