

Microshield Masonry Water Repellent



Description

Microshield Masonry Water Repellent is a water-based masonry water repellent liquid designed to impart long lasting and reliable water repellence combined to mineral substances such as brickwork and façades.

Microshield Masonry Water Repellent provides comprehensive protection for brickwork and façades against efflorescence and destruction by water soluble pollutants as well as against frost damage and the attack of micro-organisms.

Furthermore, surfaces treated with Microshield Masonry Water Repellent can also benefit from improved thermal performance thus reducing heat loss through “wet” walls, improving the indoor environment and saving valuable energy and money.

Microshield Masonry Water Repellent is a liquid impregnating agent based on silane and siloxane. Microshield Masonry Water Repellent protects the substrate while preserving the water vapour permeability, without affecting the material surface optically. Water cannot penetrate the surface and the material can maintain its natural moisture balance. The good depth of penetration of Microshield Masonry Water Repellent into the substrate guarantees long-lasting and reliable protection.

Benefits

- Single coat application required
- Water based and solvent free
- High concentration of active ingredients
- Alkaline stable
- Does not form a film on the surface
- Fully “Breathable” system
- Good penetration depth
- Long life protection typically 10+ years

Microshield Masonry Water Repellent is suitable for use on most kinds of mineral substances for example:

- Bricks and clinker
- Natural stone
- Mortars
- Render
- Porous concrete

Note: Microshield Masonry Water Repellent is not suitable for surfaces that have been painted or sealed with a film forming sealer. It is also not suitable for use on less absorbent, dense natural stone, marble and reinforced concrete for bridges and roads or limestone. Please consult our technical team if you are unsure of suitability.

Preparation

Substrates to be treated must be in sound condition. Structural defects such as cracks, cracked joints, friable mortar, defective connections, rising damp and hygroscopic moisture must be remedied first.

Substrates to be treated should be dry and free from oil, grease, dust, dirt and biological growth (moss or algae). Any contaminated substrates should be cleaned in conjunction with BS8221-1:2000, “Code of practice for cleaning and surface repair of buildings. Cleaning of natural stones, brick, terracotta and concrete”. It is important when cleaning the substrate not to use detergents as these can interfere with the hydrophobic effect of Microshield Masonry Water Repellent.

Test a small, representative area to ensure the product is not repelled and also that the dry finished surface appearance is acceptable.

All Permagard products are of a high quality and subject to rigid quality control. The company, however, cannot govern the conditions of usage and application of its products and any warranty, written or implied covers material only. The information contained in this leaflet is given in good faith but no liability can be assumed by the Company for any damage, loss, injury or patent infringement arising from its use.

Permagard Products Ltd
Units B2-B5, Worthy Road
Chittington Industrial Estate
Avonmouth
Bristol, BS11 0YB

+44 (0)117 982 3282
sales@permagard.co.uk

Application

Microshield Masonry Water Repellent can be applied by brush or low pressure sprayer a minimum rate of 0.2l/m² - 0.25l/m². In cases of highly absorbent surfaces application rates of up to 0.4l/m² are possible (testing should be carried out). Apply a full generous coat until refusal. In hot or dry conditions greater absorption is obtained by pre-dampening the surface with clean water

Application Method

1. Clean and prepare substrate as above.
2. Apply Microshield Masonry Water Repellent by brush or low pressure sprayer onto the substrate at above coverage rate.
3. Visibly check substrate for complete coverage, brush Microshield Masonry Water Repellent into any deep joints or voids that may have been missed.
4. Leave Microshield Masonry Water Repellent to penetrate the substrate and develop water repellency.

Application Notes

It is advisable to 'mask off' all sensitive areas such as windows, painted surfaces and decorative metal work, particularly before spraying, since once dry Microshield Masonry Water Repellent is difficult to remove and will stain surfaces. Similarly ensure any vehicles, garden furniture, plants etc are protected or moved to a safe distance whilst treatment is carried out. Clean any contaminated non-target surfaces with soapy water immediately.

Do not use/apply if temperatures above 25°C or below 5°C are expected. Do not apply if rain is expected within 24 hours. Microshield Masonry Water Repellent should be applied to complete facades not localised areas as this can lead to a patchwork quilt effect on the surface.

Technical & Packaging

Packaging:	5 litre and 25 litre containers.
Coverage:	4-5 m ² per litre dependent on porosity of surface.
Storage:	A storage temperature within a range of + 5 to + 25°C, protect from frost.
Shelf Life:	12 months in original unopened container, will be reduced once opened. Re-seal after use.
Life Expectancy:	≥10 years when installed as per data sheet.
Tools:	Clean with warm soapy water.

Microshield Masonry Water Repellent Properties

Composition	Thin liquid based on silanes and siloxanes
Type of solvent	solvent-free water based
Appearance	milky, white
Active Ingredient Content	≥ 10 %
Density (at 20°C)	0.98

Health & Safety

Microshield Masonry Water Repellent is classified as non-hazardous under current EC regulations. For further details please consult the safety data sheet.

As with all chemicals we recommend goggles, nitrile gloves and impermeable coveralls are worn when handling this product.