

Microshield

Masonry Water Repellent

Description

Microshield is a high performance, single coat, solvent free masonry water repellent designed to impart long lasting and reliable water repellence to mineral substances such as brickwork and façades.

Microshield provides comprehensive protection for brickwork and façade 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 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 is a ready to use impregnating agent based on silanes and siloxanes. Microshield protects the material while preserving the water vapour permeability allowing the surface to “breathe”, without affecting the material surface optically.

Benefits

- Ready to use formula
- Single flood coat application
- Water based and solvent free
- Good depth of penetration
- Rapid development of water repellency
- Alkaline stable
- Does not form a film on the surface
- Fully “Breathable” system
- Long life protection typically 10-15 years

Microshield is suitable for use on most kinds of mineral substrates for example:

- Bricks and clinker
- Natural stone
- Sandstone
- Mortars



- Mineral render
- Porous concrete
- Concrete (new and old)
- Limestone

Preparation

Substrates to be treated must be in sound condition. Structural defects such as cracks, cracked joints, 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.

Test a small, representative area to ensure the product is not repelled and also that the dry finished surface appearance is acceptable. Note: Microshield may darken the surface temporarily however once the product is fully cured this should return to normal.

Application

Microshield can be applied by brush, roller or course spray at a 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 by brush, roller or course sprayer onto the substrate at above coverage rate.
3. Visibly check substrate for complete coverage, brush Microshield into any deep joints or voids that may have been missed.
4. Leave Microshield 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 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. Microshield 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 and 25 litre containers
Coverage:	3-4 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.
Life Expectancy:	>10 years when installed as per data sheet
Tools:	Clean with warm water

Microshield Properties

Composition	Thin liquid based on silanes and siloxanes
Type of solvent	solvent-free
Appearance	milky, white, cream
Active Ingredient Content	>10 %
Flashpoint	> 65°C
Viscosity (at 20 °C)	approx. 12 mPa.s
Density (at 20°C)	1.00
pH value	n.a.

Health & Safety

Microshield is classified as non-hazardous under current EC regulations.

As with all chemicals we recommend goggles, nitrile gloves and impermeable coveralls are worn when handling this product. For further details please consult the safety data sheet.



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