

Microshield Water Repellent



Description

Microshield is a high performance, solvent free, fast acting, micro porous, exterior water repellent fluid for the property repair and maintenance professional. It is ideal for use on brick, concrete and natural and reconstituted stone.

Typical Problem

External masonry structures and surfaces of all types are subjected to water ingress from severe weather and driving rain conditions and suffer the consequences of the resultant physical and chemical attack. Damage and defects can arise from the penetration of rainwater including the lifting of renders and the discolouration and dampness of plasters. Water ingress or salt deposits can adversely effect decorated surfaces and cause timber decay or mould growth inside the building.

Conventional treatments have often relied on exterior water proofing by applying a silicone solution usually in a flammable solvent carrier base. This technique can be expensive, hazardous and limited and should not be used on fresh 'green' concrete. Also the 'pore lining' character of silicones can make the problem worse by channeling moisture into the lined pores, particularly from driven rain or exposed salt laden rain in coastal areas.

Microshield overcomes these problems and provides a reliable, water repellent micro-porous finish.

The Permagard Solution

Microshield is a ready for use, water based, solvent free polymer. Microshield is safe and easy to apply by brush, roller or coarse spray and air cures rapidly even at near zero temperatures. When dried it provides a colourless, protective micro-porous layer that is highly water shedding and water repelling against driven rainwater. Unlike traditional solvent based silicone fluids Microshield can be applied onto fresh, cured, highly alkaline, cement based surfaces, whether dry or damp. It is not suitable for application to wet, green uncured cements/concrete, or as a DPC layer.

Surfaces suitable for treatment include:

- External walls of brick, concrete, cement render finished. Walls need to be sound and free from cracks and pointing defects.
- Concrete floors – cement screed or concrete floors can be treated to consolidate and bind friable, porous surfaces and produce a dust free, breathable micro-porous seal.
- Any new or repaired cementitious surface. These can be treated and water proofed immediately the structure is cured and hard.

Features and Benefits

- Water based, non hazardous, one coat system is quick and convenient to apply
- Brushes, rollers and spray equipment rinse out with water (Note: Clean brushes etc immediately after use, do not allow to dry out, cured product is not water soluble)
- Solvent free, non flammable. No fire risks, hazardous solvent vapours or fumes.
- Not effected by the highly alkaline content of fresh new cement and so can be used immediately concrete is cured (3-5 days)
- Forms a clear, dry, invisible layer which prevents the penetration of wind driven rain or surface moisture.
- Micro-porous nature of the treatment allows rapid dry out and surfaces to breath.



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Preparation and Application

- Surfaces to be treated should be free from oil, grease, dust or paint layers and capable of absorbing the Microshield fluid. Test a small, representative area to ensure the product is not repelled and also that the dry finished surface appearance is acceptable.
- Repair all significant cracks, fissures and faulty pointing on horizontal or vertical surfaces prior to treatment.
- 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. Similarly ensure any vehicles, garden furniture, plants etc are protected or moved to a safe distance whilst treatment is carried out.
- Apply a full, generous coat to refusal by brush, roller or coarse spray. In very hot weather greater absorption is obtained by pre damping the surface.
- Remove all surplus/excess treatment with a damp cloth before Microshield dries out and cures.
- Do not use/apply if temperatures below 5°C are expected.

Technical & Packaging

Packaging:	5 & 25 litre containers
Coverage:	3-8 m ² per litre dependent on porosity of surface
Storage:	Ambient, protect from frost

Health & Safety

Microshield is classed as non-hazardous under EEC regulations

Respiratory:	Masks when spraying
Hand:	Wear vinyl gloves
Eye:	Goggles if risk of splashing
Skin:	Standard coveralls

Refer to product MSDS sheet for full details.

FOR USE BY PROFESSIONAL OPERATORS ONLY

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