



SILOXANE WATER REPELLENT

DESCRIPTION

“Kingfisher Siloxane Water Repellent” is a solvent borne waterproofing treatment for external brickwork, stonework, mortar joints and most porous facing materials above ground level. It is a penetrating sealer which works by lining the capillary channels with a hydrophobic silicone barrier which greatly reduces moisture absorption from rain and other moisture sources. The hydrophobic nature of “Kingfisher Siloxane Water Repellent” also helps to keep building exteriors clean.

Important note: Always treat a small discreet test area to satisfy yourself as to finish before proceeding to full application

TYPICAL USES.

In general terms “Kingfisher Siloxane Water Repellent” is used to protect walls and buildings from the detrimental effects of moisture absorption. It is primarily suitable for use on vertical or steeply pitched surfaces. Specific applications include:

1) Treatment of walls suffering from Penetrating Dampness

Usually (but not always) in old walls where bricks or stonework have gone porous (usually caused by a combination of weathering and age related deterioration), moisture progressively soaks through the masonry until it appears on the internal plaster finishes. In conjunction with any necessary remedial pointing, external treatment with “Kingfisher Siloxane Water Repellent” will prevent further damaging moisture ingress. Note: If the penetrating damp has contaminated the plaster finish with salts, the plaster will need to be replaced (See Kingfisher remedial re-plastering specification).

2) Protection from discolouration of new and renovated surfaces.

Walls mainly become dirty as moisture in the form of rain, snow, fog and even condensation deposits particles of airborne dirt and pollutants which are carried into the substrate. When the moisture evaporates it leaves the “solid” contaminants behind and these build up over time. Damp walls attract further dirt and other airborne contaminants (e.g. carbon based pollutants) which, over time discolour the surface further leaving ugly stains and water marks which often detract from the aesthetic appeal of the building. Damp walls can also breed rapid moss and mould growth. The hydrophobic properties of “Kingfisher Siloxane Water Repellent” reduce moisture absorption, thereby limiting the accumulation of dirt and organic growth on the substrate.

3) Efflorescence Control.

Efflorescence often referred to as “salting” leaves unsightly white marks or staining on walls which in extreme cases can severely blight the appearance of the building. This happens because most of our familiar building materials; clay bricks, natural stone, sand and even cement all originate in the ground which is naturally rich in chloride and sulphate minerals. When rain runs down a wall it is absorbed into the capillaries of the wall surface where it dissolves any chlorides present into solution (salt water). As the wall dries out, the evaporating moisture carries these salts to the surface, leaving white salt crystals on the surface. Application of “Kingfisher Siloxane Water Repellent” arrests the cycle by preventing the wall from absorbing moisture in the first place, so the salts remain in the wall.

FEATURES and BENEFITS

- Deeply penetrating, water repellent.
- 100% breathable (micro-porous).
- Colourless, does not darken the surface or leave any “sheen”.
- Protects surface from frost damage due to spalling.

- Easy to use.
- Protects against acid rain.
- Improves thermal efficiency: just as a person outdoors in soaking wet clothes loses heat faster than in dry clothes, the same is true in buildings. Saturated masonry loses heat at roughly one and a half times the rate of dry masonry, so controlling moisture penetration with "Kingfisher Siloxane Water Repellent" encourages the building to retain more heat

INSTRUCTIONS FOR USE

Allow at least 48 hours after rain before applying "Kingfisher Siloxane Water Repellent". The surface to be treated should be completely dry and rain should not be expected for at least 6 hours post - application. The surface should be clean and free of loose matter. If the wall is infested with moss or other organic growth, this should be wire brushed and neutralised with "Kingfisher Bio-Wash and allowed to dry out. Defective joints in brick and stonework should be re-pointed using "Kingfisher Pointing Solution" in the mortar mix. It is not necessary to fill hairline cracks, but large cracks should be made good and allowed to cure before treatment. Efflorescence should, as far as possible, be removed by wire brushing and application of "Kingfisher Eco-Brick Cleaner". Carbon or environmental pollution stain marks can often be removed or improved with the application of Kingfisher "Bio-3" environmental cleaning agent.

APPLICATION

Stir before use and apply with brush, or low pressure spray in one coat (or two on very porous substrates), in conditions of adequate ventilation. Apply liberally allowing the "Kingfisher Siloxane Water Repellent" to run into all joints and fissures, running freely off the brush or spray to a "run down" of approximately 300mm. Avoid "spattering" paved surfaces with run off as this will show up as "spots" when it rains.

COVERAGE

Coverage will vary according to the porosity of the surface treated but should be between 8 mtr²/ltr on hard brickwork and 3 mtr²/ltr on highly porous surfaces. The latter may require two coats.

STORAGE.

Store in unopened containers in cool, dry conditions away from sources of ignition and heat. Shelf life will be approximately two years when stored as recommended.

HAZARD IDENTIFICATION

"Kingfisher Siloxane Water Repellent" is flammable. When spraying wear suitable protective equipment, namely, overalls, gloves and face mask. Although ventilation should not be a problem under normal circumstances, vapour build up should be avoided in confined spaces. Wear suitable respiratory equipment. Avoid over spray or mist formation which could contaminate unprotected surfaces such as paintwork, glass etc. or cover with polythene sheeting. Refer to the product Material Safety Data Sheet for more detailed information.

For further Health and Safety information on this product please refer to the Kingfisher Safety Data Sheet, copies of which are available from the Kingfisher Technical Dept Tel. 01229 869100 or Fax 01229 869101.
www.kingfisheruk.com

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