



DAMP - GUARD

DESCRIPTION.

Kingfisher DAMP-GUARD is an advanced styrene butadiene latex based liquid membrane which offers a simple method for multiple water proofing and vapour proofing applications. The product is formulated with fillers, pigments and film control agents. It is water based and is **free** of solvents and plasticisers.

DAMP-GUARD has been independently tested and found to be an effective guard against Radon gas.

The advantages of **Kingfisher DAMP-GUARD** include:

- Single pack system.
- Non-toxic, non hazardous, solvent and plasticiser free.
- Good bond to many substrates.
- Water based compounds that can be applied even to damp backgrounds.
- Low water vapour permeability.
- Quick drying. Typically touch dry in 1 hour.
- Resistant to silage acids.
- Toughness, high flexibility, extensibility and good crack bridging properties.
- Non staining and stain blocking.
- Alkali resistant can be applied to alkaline surfaces.
- Available in a range of colours.
- Bonds strongly with, Concrete, Brick, Lightweight aggregate, Blocks, Plaster Board, Steel, Lead and Plywood.

PROPERTIES.

Adhesion of Kingfisher DAMP-GUARD to substrate.

The liquid membrane adheres well to a large range of substrates. However, it may appear that the peel strength to the substrate floor is sometimes poor. This is because the high tensile strength of film allows it to be peeled away without breaking, whereas with low tensile strength membranes the film breaks before it can be peeled away.

Adhesion of materials onto dried Kingfisher DAMP-GUARD membrane.

Many wet applied cementitious materials bond well with **Kingfisher DAMP-GUARD**, particularly if they contain polymers.

When applying polymer free materials such as screed, render or plaster, the highest adhesion result is obtained if

the material is applied as soon as the **Kingfisher DAMP-GUARD** is touch dry.

Alternatively, the surface of the undried **Kingfisher DAMP-GUARD** can be blinded with clean, sharp sand to provide a form of mechanical key to the subsequent coating.

PREPARATION.

To achieve the best results from **Kingfisher DAMP-GUARD** the background surfaces should be smooth or have a light even texture. Any masonry should be flush pointed and defects in existing surfaces made good.

The surface needs to be clean, sound and free from dust, loose materials or free surface water.

It is sometimes advantageous to pre-wet concrete or masonry backgrounds so that these are damp but free from any water glistening on the surface, to aid the wetting out of the background.

APPLICATION

Kingfisher DAMP-GUARD may be applied by brush, roller or airless spray* and is effective in many situations e.g.

- **Floors.** Under screeds (or above screeds) to provide a damp proof membrane.
- **Basements.** As part of a waterproofing system beneath ground level.
- **Walls.** Under render or plaster as a water or vapour barrier.
- **Water Storage.** The membranes perform well even when continuously immersed in water.
- **Silage Storage.** The membrane protects concrete from silage attack.
- **Gas Barrier.** To minimise methane / radon transmission.
- **Tiling.** As a secondary protection under tiles in wet areas e.g. bathrooms, balconies and food processing areas.

The membrane should not be applied in wet conditions or when these conditions are likely to occur before the membrane is dry. Nor should it be applied when the temperature of the background or the air temperature is below 7°C.

Due to the diverse variety of background types and site conditions, it is always advisable to **check adhesion to the background by testing on a sample area before starting any job.**

If necessary **Kingfisher DAMP-GUARD** can be diluted with up to 10% water. However, care should be taken to ensure that the correct dry coat thickness is applied.

The thickness of the dried membrane per coat depends upon the method of application. *For a single dry coat thickness of more than 0.3mm it is recommended that the membrane be applied by airless spray. If airless spray is used, single dry coat thicknesses of up to 1mm can be obtained. (Note: A single coat of 0.6mm dry thickness or more will require a greater drying time than for the equivalent multi coat application).

If two coats are being applied it is recommended that they are applied at right angles to each other. Before application of the second coat the first coat must be allowed to become touch dry. The time required to achieve this will vary depending upon the prevailing site conditions but will typically be in the order of 1 hour.

It is preferable that the second coat is applied within 24 hours of the application of the first coat.

After all coats have been applied the membrane should be left at least 4 days before attempting any ponding tests. Under unfavourable drying conditions this period may need to be extended.

Note: A primer coat of **Kingfisher KX-11** and cement enhances the bond strength to concrete, brick, ceramic tiles and steel.

COVERAGE.

A minimum dried coating thickness of 0.6mm is necessary to provide a vapour barrier. This should be applied in a minimum of 2 coats (i.e. 0.3mm dry film thickness per coat for two-coat application) to comply with CP102: 1973, Code of Practice for protection of buildings against water from the ground.

CP102: 1973 has been partially replaced by BS8102:1990.

For the final dried membrane thickness to be 0.6mm, a coverage rate of 1.2kg/m² is required (this is the total for all coats) and corresponds to approximately 1 litre/m².

The membrane dries to form a tough semi-gloss finish.

PACKAGING/COLOUR.

Kingfisher DAMP-GUARD is available in 5kg and 10kg plastic buckets in the following range of colours:

- White.
- Grey.
- Light Blue.
- Magnolia.

Note: The colour of the liquid compound will differ slightly from the colour of the dried membrane. Colour shades may also vary between batches.

The product as supplied is a viscous liquid of similar consistency to a thick emulsion paint. (In the order of 4000 mPa.s).

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 868101.

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