



# Hydroproof

## Single component acrylic polymer for cement based waterproof composite coating membrane.

### Uses

Provides an effective and economical method of waterproofing to concrete and masonry surfaces, by mixing with cement and application by brush.

### Advantages

- Non - toxic, non-flammable and user friendly
- Provides a tough, impermeable waterproof membrane
- Can be applied by brush, on horizontal and vertical surfaces
- Excellent adhesion to concrete and masonry surfaces
- Protects concrete and mortar from natural elements such as wind, rain, sunlight
- Breathable - allows inside water vapour to escape

### Description

Hydroproof is formulated to be mixed with cement on site or simply brush applied over concrete or masonry surfaces to provide an effective waterproof membrane.

### Technical support

Fosroc provides a technical advisory service supported by a team of specialists in the field.

### Areas of application

Below sloping screed or waterproof plaster on :

- Roofs, terraces and balconies as a sandwich layer
- Pools and fountains
- Reservoirs and channels
- End walls subjected to rain

### Properties

**Water absorption** : 1% maximum

**Pot life at 30°C** : 30 min.

**Application temperature** : Not less than 10°C

**Toxicity** : Non-toxic

**Bond strength to concrete** : Approx. 1 N/mm<sup>2</sup>

### Application instructions

#### Preparation

All surfaces to be treated with Hydroproof must be thoroughly cleaned by a wire brush or other mechanical means, to remove all dust, laitence or debris. The surface must also be free from oil, grease, wax or any other form of foreign matter which might affect adhesion. Spalled and deeply disintegrated concrete or mortar must be removed to a sound substrate and repaired suitably before coating.

#### Priming

Before application, the surface should be primed with Hydroproof as follows:

1 part of Hydroproof : 2 parts of Water : 4 parts of Cement

Mixed material with the above proportion will cover an area of 16-17m<sup>2</sup> for 1L of Hydroproof.

#### Topcoat

Hydroproof acrylic polymer shall be mixed with neat cement in the ratio of 1:2 respectively, to obtain a uniform and consistent slurry avoiding any lump formation. This can be achieved with a low duty, low speed drilling machine attached with a mixing paddle. Do not mix for more than 2 minutes. Do not mix more material than which can be used within the pot life. Retempering the mix with water should not be done. Occassionally stirr the material till the entire quantity is applied, so that solids do not settle at the bottom of the container.

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## Mixing Ratio

Hydroproof liquid	Neat cement
0.5L	1 kg
1L	2kg
5L	10 kg
20L	40 kg

For white colour - mix white cement, for other colours, add cement compatible pigments to white cement.

## Application

For best results, wet the surface before coating. Apply the mix with a short, stiff bristle brush like a paint to an approximate thickness of 1 to 2mm. During the first 12 hours of curing, Hydroproof surface must be protected from abrasion, rain or other adverse conditions. No traffic shall be allowed within 48 hours after application.

Normally 2 coats of application of Hydroproof are recommended. First coat should be allowed to air dry for 5 - 6 hours. After application of the final coat, initial air drying shall be allowed for 2 to 6 hours. During this period water should not be used for curing. Moist curing should be done for the next 24 hours by spraying water on Hydroproof coating. Following moist curing, Hydroproof should be allowed to dry for three days before subjecting it to submersion in water.

## Estimating

### Packaging

Available in 0.5, 1, 5 & 20 L packs.

### Coverage

**Priming coat** - 16-17m<sup>2</sup> / L.

**Topcoat** - 4.5 - 5.0m<sup>2</sup> / L / coat.

However the practical consumption varies depending on the texture and porosity of the surface and the application thickness.

## Storage

Hydroproof liquid has a shelf life of 12 months, when stored in unopened containers under normal warehouse conditions.

## Precautions

### Health & Safety

Hydroproof is water based and non-toxic. Gloves should be worn during application. Any splashes on the skin or eyes must be washed off with clean water. In case of prolonged irritation medical advice should be sought.

### Fire

Hydroproof is nonflammable.

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### Important note :

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