

# Aquaproof 2K

Flexible acrylic cement modified waterproof coating



## Description

Aquaproof 2K is a two component polymer modified cementitious, flexible waterproof coating for internal and external applications available in many attractive colours.

## Applications

- ▲ For waterproofing of water retaining structures and reservoirs.
- ▲ To provide protection for concrete substrates and masonry against carbon dioxide, chloride ions, water and de-icing salts.

## Advantages

- ▲ Waterproof, suitable for water retaining structure and basements.
- ▲ Breathable, water vapour preamble.
- ▲ Durable, excellent resistance to UV attack.
- ▲ Excellent protection against carbon dioxide, chloride ions and water.
- ▲ Non-toxic, suitable for drinking water.
- ▲ Cost effective, quick and easy brush or spray application.
- ▲ Suitable for internal and external applications.

## Method of Use

### Substrate Preparation

The surfaces to be coated should be clean, sound, and free from any contamination. Remove any traces of curing compound, laitance, organic growth or any other loose materials. This is best obtained by using high pressure water or light grit blasting.

Honey combing, damaged or deteriorated concrete exists, the substrate should be repaired using suitable low permeability repair mortar from DCP repair systems before commencing the coating.

### Priming

No primer is required, but substrates should be pre-soaked with clean water prior to application of Aquaproof 2K.

## Technical Properties @ 25°C:

Mixed density:	1.8 ± 0.1 g/cm <sup>3</sup>	
VOC:	< 10 g/ltr (powder) < 20 g/ltr (liquid)	
Working time:	45 min	
Tensile strength: BS 6319, Part 7	> 2.0 MPa @ 7 days > 2.5 MPa @ 28 days	
Bond strength: ASTM D4541-02	1.5 MPa @ 7 days 2.0 MPa @ 28 days	
Flexural strength: BS 6319, Part : 3	> 4 MPa @ 7 days > 5 MPa @ 28 days	
Resistance to water pressure: DIN 1048	> 30 m (3 bars) positive (2 mm thickness)	
Mixing ratio:	5 kg liquid polymer with 15 kg powder	
Minimum application temperature:	5°C	
Chloride ion resist- ance:	Coated % Cl penetration	Uncoated % Cl penetration
3 months	0.0003	0.018
6 months	0.0003	0.035

## Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

The 5 kg of Aquaproof 2K liquid should be added to a clean container.

The 15 kg powder is then added slowly to the liquid while mixing continuously with low speed mixer/drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until a uniform consistency is obtained.

## Application

Aquaproof 2K can be applied by brush or spray. The mixed material should be brushed well into the surface. Strike off with the brush in one direction. Care must be taken not to spread the material too thin.



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When the material begins to drag, do not add any water, but dampen the surface again.

Leave the first coat overnight to cure before applying the second coat. If the first coat is left for more than one day or if it is very dry, pre-soaking with clean water is needed before applying the second coat.

The second coat shall be applied by brush in a similar way to the first layer but preferably perpendicular to the previous layer to ensure good bond and coverage.

## Cleaning

All tools should be cleaned immediately after finishing by clean water. Hardened materials should be cleaned mechanically.

## Remarks

Aquaproof 2K should not be applied to frozen substrate or if ambient temperature is below 5°C or expected to fall below 5°C.

## Packaging

Aquaproof 2K is available as 20 kg packs (5 kg polymer & 15 kg powder).

## Coverage

Approximately 11 m<sup>2</sup>/20 kg for one coat @ 1 mm thickness.

## Storage

Aquaproof 2K has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 50°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

## Health and Safety

As Aquaproof 2K contains Portland cement and sand, Aquaproof 2K may cause irritation to skin or eyes.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice.

For further information refer to the Material Safety Data Sheet.

## Fire

Aquaproof 2K is nonflammable.

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- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

### Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

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