

Setseal 2K

Flexible acrylic cement modified waterproof coating



DESCRIPTION

Setseal 2K is a two component polymer modified cementitious, elastomeric, 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.
- » Waterproofing behind stone veneer and exterior cladding.

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, squeegee, 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, mold/formwork release agents, 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.

Notes:

- » Solvent based primers and coatings like Repcoat primer and Setseal A should be removed mechanically before applying Setseal 2K.
- » For Fair-face concrete, it is recommended to clean and prepare the surface by performing slight mechanical roughening, or applying water jetting to enhance the adhesion of Setseal 2K and prevent peeling.

TECHNICAL PROPERTIES @ 25°C:

Mixed density:	1.8 ± 0.1 g/cm ³	
Working time:	45 min	
Tensile strength:	> 2.0 MPa @ 7 days	
BS 6319, Part 7	> 2.5 MPa @ 28 days	
Bond strength:	≥ 1 MPa @ 28 days	
ASTM D4541		
Flexural strength:	> 4 MPa @ 7 days	
BS 6319, Part : 3	> 5 MPa @ 28 days	
Resistance to water pressure:	> 30 m (3 bars) positive	
DIN 1048	(2 mm thickness)	
Mixing ratio:	5 kg liquid polymer with 15 kg powder	
Minimum application temperature:	5°C	
Chloride ion resistance:	Coated % Cl penetration	Uncoated % Cl penetration
3 months	0.0003	0.018
6 months	0.0003	0.035
VOC:	< 10 g/ltr (powder)	
	< 20 g/ltr (liquid)	

Note: These results were achieved using 2 mm thickness.

PRIMING

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

MIXING

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

The 5 kg of Setseal 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.





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APPLICATION

Setseal 2K can be applied by brush, squeegee 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.

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

Leave the first coat to cure for a minimum of 4 hours before applying the second coat, depending on ambient temperature, relative humidity and ventilation conditions. 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.

Tiling over the waterproofing could start after a minimum of 4 hours from the application of the second layer, depending on ambient temperature, relative humidity and ventilation conditions.

For spray application, a maximum of 1 litre of water may be added to the mix if needed depending on the type of spray machine.

CLEANING

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

REMARKS

Setseal 2K should not be applied to frozen substrate or if ambient temperature is below 35°C or expected to fall below 5°C.

Ensure proper ventilation during waterproofing system application and curing for optimal results.

PACKAGING

Setseal 2K is available in 20 kg packs (5 kg polymer & 15 kg powder), supplied either as separate components or as a bucket containing both components for ease of mixing (Setseal 2K Bucket).

COVERAGE

Approximately 12.5 - 16 m² per 20 kg for one coat @ 1 mm thickness, depending on the condition of the surface and method of application.

STORAGE

Setseal 2K has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

As Setseal 2K contains Portland cement and sand, Setseal 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

Setseal 2K is nonflammable.

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08-0146-JO-C-2025