

Setseal FLX Extra

Elastomeric acrylic cement modified waterproof coating for roofs



DESCRIPTION

Setseal FLX Extra is a two component polymer modified cementitious, highly elastomeric and flexible waterproof coating for roofs and wet areas.

APPLICATIONS

- » For roofs waterproofing and wet areas.
- » 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

- » High elastomeric properties.
- » Waterproof, suitable for roofs and 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.
- » Able to withstand foot traffic.
- » Able to withstand high positive and negative pressures.

STANDARDS

Setseal FLX Extra is suitable for use in contact with potable water when tested in accordance to BS6920.

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.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Light grey
Mixed density:	1.6 g/cm³
Working time:	> 3 hr @25°C
Mixing ratio:	10 kg liquid polymer to 15 kg powder
Minimum application temperature:	5°C
Bond strength: ASTM D4541-2	1.6 MPa
Permeability (2 mm thickness): DIN 1048	12 bars
Elongation at break: (without reinforcement) @ 2 mm thickness ASTM D412	150% after 28 days @ low speed rate
Initial setting:	5 hr
Final setting:	> 24 hr

Notes:

- » Solvent based primers and coatings like Repcoat primer and Setseal A should be removed mechanically before applying Setseal FLX Extra.
- » 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 FLX Extra and prevent peeling.

PRIMING

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

MIXING

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

The 10 kg of Setseal FLX Extra 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 FLX Extra 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. 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. 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.

Areas subjected to foot traffic fibre glass mesh (2*2) needs to be installed between the two coats of Setseal FLX Extra.

CLEANING

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

REMARKS

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

PACKAGING

Setseal FLX Extra is available in 25 kg pack.

COVERAGE

Approximately 16 m² for 1 mm thickness, applied in two layers.

STORAGE

Setseal FLX Extra 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 FLX Extra contains Portland cement and sand, Setseal FLX Extra 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 FLX Extra is nonflammable.

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