# Setseal FLX Plus



Elastomeric acrylic cement modified waterproof coating for roofs

#### **DESCRIPTION**

Setseal FLX Plus is a two component polymer modified cementitious, elastomeric fibre reinforced waterproof coating for roofs and wet areas.

#### **APPLICATIONS**

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

#### **ADVANTAGES**

- » Highly flexible with fibre reinforcement.
- 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.

#### **METHOD OF USE**

#### SUBSTRATE PREPARATION

The surfaces to be coated should be clean, sound, and free from 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 FLX Plus.
- » 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 Plus and prevent peeling.

## **TECHNICAL PROPERTIES @ 25°C:**

Mixed density:  $1.70 \pm 0.05 \text{ g/cm}^3$ 

Working time: 30 - 50 min

Colour: Grey or white

5 kg liquid polymer with 10 kg Mixing ratio:

powder

Minimum application

temperature:

5°C

Bond strength:

> 1.5 MPa ASTM D4541-02

Static crack

accommodation:

EN 1062-7, Class A5

≥ 3 mm

at normal conditions

Pass @ positive water Permeability pressure > 5 bars (2 mm thickness): Pass @ negative water **DIN 1048** 

pressure > 3 bars

Elongation at break:

(without reinforcement) 100 ± 10%

@ 2 mm thickness (dry curing after 28 days @ ASTM D412, Die C low speed rate)

5mm/min

Maximum grain size: 0.5 mm

40 - 50 min Initial setting:

Final setting: 2 - 3 hr

## **PRIMING**

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

## **MIXING**

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. The 5 kg of Setseal FLX Plus liquid should be added to a clean container.

The 10 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**

Setseal FLX Plus 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 fibreglass mesh  $(2 \times 2)$  needs to be installed between the two coats of Setseal FLX Plus. 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 FLX Plus 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 Plus is available as 15 kg packs (5 kg polymer & 10 kg powder).

## **COVERAGE**

Approximately 8.5 - 9 m<sup>2</sup> for 1 mm thickness.

## STORAGE

Setseal FLX Plus 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.

## Setseal FLX Plus

#### **CAUTIONS**

#### **HEALTH AND SAFETY**

As Setseal FLX Plus contains Portland cement and sand, Setseal FLX Plus 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 Plus is nonflammable.

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