

# Builda-Flex 700



We Create Better Future

## Flexible acrylic cement modified waterproof coating

### Description:

Builda Flex 700 is a two-component polymer modified cementitious, waterproof coating for internal and external applications.

### Applications:

- . Waterproofing behind stone veneer and exterior cladding.
- . To provide protection for concrete substrates and masonry against carbon dioxide, chloride ions, water and de-icing salts.
- . For waterproofing of wet areas such as bathrooms and kitchens.
- . For waterproofing of water retaining structures and reservoirs.

### Benefits:

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

### 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 BUILCHEM repair systems before commencing the coating.

#### Priming:

No primer is required, but substrates should be pre-soaked with clean water prior to application of Builda Flex 700.

### Technical Properties @ 25°C:

Mixed density:	1.82 ± 0.1 g/ml
VOC:	< 5 g/Ltr (powder) < 40 g/Ltr (Liquid)
Working time:	60 min
Tensile strength:	> 2.0 MPa @ 7 days
BS 6319, Part 7	> 2.6 MPa @ 28 days
Bond strength:	
ASTM D4541	≥ 1.6 MPa @ 28 days
Flexural strength:	> 4.5 MPa @ 7 days
BS 6319, Part : 3	> 5 MPa @ 28 days
Resistance to water pressure:	> 30 m (3 bars) positive (2 mm thickness)
DIN 1048	
Mixing ratio:	3 kg polymer liquid with 17 kg powder
Minimum application temperature:	5°C

Note: These results were achieved using 2mm thickness

### Mixing:

To ensure proper mixing, a mechanically powered mixer or drill filled with suitable paddle should be used. The 3 kg of Builda Flex 700 liquid should be added to a clean container. The 17 kg powder is then added slowly to the liquid while mixing continuously with low-speed mixer/drill (300 - 400 rpm). Mixing should be continued for 3 minutes until a uniform consistency is obtained.

### Application:

Builda Flex 700 can be applied by roller, 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. Water can be added if more open time required.

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.

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**Remarks:**

Builda Flex 700 should not be applied to frozen substrate or if ambient temperature is above 35°C or expected to fall below 5°C.

**Packaging:**

Builda Flex 700 is available as 20 kg packs (3 kg polymer & 17 kg powder).

**Coverage:**

Approximately 12 - 16 m<sup>2</sup> per 20 kg for one coat @ 1 mm thickness, depending on the condition of the surface and method of application.

**Storage:**

Builda Flex 700 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, BUILCHEM Technical Department should be contacted for advise.

**Cautions:****Health and Safety:**

As Builda Flex 700 contains Portland cement it 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 advise.

For further information refer to the Material Safety Data Sheet.

**Fire:**

Builda Flex 700 is non-flammable.