

# ClimaTech FX 120

## System Adhesive

### Product Description:

A water and humidity-resistant, high performance, cement-based adhesive mortar with enhanced filling capability that is prepared by the combination of environmentally friendly additives and polymer and used in the adhesion of all thermal insulation plates on mineral-based surfaces, advantageous for the user with its long usage life, used in Bostik ClimaTech Energy Saving Systems.

### Areas of applications:

- Both interior and exterior
- Both vertical and horizontal
- On walls and ceilings

### Features:

- Resistant to frost, water, continuous humidity and heavy weather conditions.
- Plastic consistency, easy to apply.
- Hydraulic bonding quality
- High resistant
- Fireproof

### Technical data:

Dmax (mm)	1
Colour	Grey
Applicable Thickness (mm)	20
Dry Unit Volume Weight (kg / lt)	1,5 ± 0,2
Wet Unit Volume Weight (kg / lt)	1,6 ± 0,2
Waiting Time in Container (minute)	120 – 240
Run Duration (min)	~ 30
Drying Time (hour)	~ 24
Compressive Strength (28 days)= (N/mm <sup>2</sup> )	≥ 8
Bending Strength (28 days)= (N/mm <sup>2</sup> )	≥ 3
Adhering Strength (28 days)= (N/mm <sup>2</sup> )	≥ 1
Mixture water amount (for 25 kg dry mortar)	6,0 – 6,5 lt
Environment temperature for application	Between +5°C and +35°C
Resistance of hardened coating	Between -25°C and +80°C

Technical data are approximately provided according to a temperature of + 20°C and a relative humidity of 50%.

### Preparing the substrate :

- The surfaces to be coated should be free of adhesive preventive foreign substances such as dust, dirt, mould oil, paint etc.; residues and wastes like cement, plaster and concrete should also be removed.
- The sub-surfaces that are not strong enough to carry themselves e.g. cracked plasters, weak surfaces, or residues of moss should be cleaned from the application surface.
- The floors which require repair should be levelled with self-levelling surface screeds minimum 3-4 days before adhesive application.
- Aerated concrete, gypsum plaster, drywall and anhydrous-based, highly absorbent surfaces should be primed prior to use.

### Application:

- Bostik ClimaTech FX 120 System Adhesive in powder state should be mixed in low cycle after pouring into a container filled with some clean water at normal environment temperature until a smooth mixture is obtained. Mixing time should be minimum 5 minutes. The obtained mortar should be rested for 3 minutes and mixed for 2 minutes until it becomes homogenous.

- The fresh mortar should be used within 30 minutes. If this time is exceeded, the mortar should be scraped off from both surface and plate; fresh adhesive mortar should be replaced.
- Bostik ClimaTech FX 120 System Adhesive is applied on the back side of the thermal insulating plates.
- In applications, frame and three dots method is applied. Minimum 40% of thermal insulating plate should be covered with adhesive mortar.
- In perpendicular and smooth surfaces, surface adhesion can be done by combing.
- It is preferred to cover all the back of the thermal insulating plate with adhesive mortar with a 8mm toothed trowel. During the application, 5 mm space from the plate edges should be left.
- Bostik ClimaTech FX 120 System Adhesive should not be overflowed on the joints between thermal insulating plates. The plates on which adhesive mortar is applied as specified should be adhered on the application surface by pressing carefully.
- Thin gaps which may be up to 2 mm between the plates should be filled with polyurethane foam and wider gaps with thermal insulating plate itself.
- Thermal insulating plates are recommended to be plugged separately. In multi-storey buildings, the frequency of the plugs should be increased by considering the wind load.
- Plugs can be applied on the thermal insulating plates 24 hours after the application with Bostik ClimaTech FX 120 System Adhesive.

#### **After application:**

In the first days, newly applied surfaces should be protected from direct sunlight, severe air stream, high temperatures (over +35°C), adverse air conditions such as rain and frost.

#### **Coverage:**

App. 4,0 – 4,5 kg/m<sup>2</sup>

The coverage amounts are theoretical and it is recommended to do coverage-controlled sample application before treatment.

#### **Packaging:**

25 kg craft bag, 64 bags in 1 pallet (1600 kg/pallet)

#### **Storage:**

- Dry mortar bags should be protected from water, frost and adverse air conditions.
- They should be kept dry and cool on wooden pallets.
- The torn and opened products should be closed immediately and consumed first.
- Maximum 8 bags should be stocked on each other.
- Shelf life is maximum 12 months conditional to complying with the abovementioned storage conditions.

#### **Risk Signs :**

**R23/24/25** : Poisonous when inhaled, swallowed and contacted with skin.

#### **Security signs:**

**S2:** Keep out of reach of children.

**S3:** Keep cool.

**S9:** Keep the package dry.

**S26:** Rinse with water thoroughly when contacted with eyes and consult a doctor.

**S28:** Rinse with water thoroughly when contacted with skin and consult a doctor.

**S29:** Do not throw in the drain.

**S36/37/39:** Wear suitable protective clothing, protective gloves and glasses / mask during the operation.

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