

PYROFLEX

Special adhesive material for firebricks and other refractory building elements.

Description

Special adhesive material for firebricks and other refractory building elements. It is characterized by excellent resistance to high temperatures and intense temperature fluctuations. It can be applied to all types of firebricks and wherever high thermal resistance is required (Thermal resistance: 1,080 °C). Pyroflex does not crack, and the same product can be used for joint sealing of the elements or for repairing broken joints and firebricks.

Examples of applications

- Wood-fired ovens
- Stoves
- Barbecues
- Chimneys
- Fireplaces, etc.

Specifications

Form: dry mortar

Dry mortar density: 1.3-1.5 kg/L

Fresh mortar density: 1.8-2.0 kg/L

Mix pot life: approximately 1,5-2 hours

Application temperature: +5°C to +35°C

Open time: ≥ 10 min

Time for minor adjustments: ≥ 10 min

Mixture preparation

1. Prepare the material in a suitable container by first pouring in the required amount of water and then gradually adding the contents of the bag, while stirring with an electric mixer at low speed (300 rpm).
2. Mix until a homogeneous mixture without lumps or clumps is obtained.
3. Allow the mortar to rest for 2–3 minutes **before stirring briefly again.**
Required amount of water: 6.0–6.5 L for 25 kg of mortar.

The amount of mixing water is indicative, and you can adjust it to achieve a more or less thixotropic consistency depending on the required application. Adding significantly more water (>10%) than the recommended amount may result in a reduction in the thickness of the final coating layer during curing, and consequently in reduced strength of the mortar. It is recommended to periodically stir the mixture (every 45–60 minutes) without adding additional water.

NOTE: The pot life / open application time may vary depending on the temperature: higher temperatures reduce the working time, while lower temperatures increase it. Do NOT apply the material at temperatures below 5 °C or above 30 °C.

Instructions for use

1. Substrate preparation

The substrates must be solid and free of substances that reduce adhesion, such as dust, oils, grease, and loose materials. Any large gaps or cracks must be sealed or repaired using suitable BAUER materials.

2. Application

Apply the mixture with a trowel on the surfaces, both for placing and jointing the firebricks. Within 10 minutes, place the firebricks in position and press or tap them to ensure good contact. Under adverse weather conditions (sun, high temperatures, dry air, etc.), the open time may be reduced to just a few minutes. Within 10 minutes of placement, you can make minor adjustments to the alignment.

Periodically check the surface of the adhesive with your fingers for the formation of a skin. If a skin has formed, remove the dried part and apply fresh adhesive. Jointing should be done at least one hour after placing the firebricks. Fireplaces can be used 7–10 days after the jointing has been completed.

Packaging

Heavy duty paper bags, 25kg, 5Kg each.

Storage

Preferably in shady and roofed locations, low in moisture, for 6 months from the date of production.

Precautions and safety

The product contains cement and is classified as an irritant. No special precautions are necessary for product application except for standard precautions applicable to all construction operations i.e. using gloves and goggles; preventing prolonged skin contact, etc. In case of eye contact, immediately wash with plenty of water and seek medical advice if necessary. Collect empty bags and plastic covers and dispose of in refuse bins designated for this purpose. Consult instructions for safe use indicated on product packaging. For more information please refer to the material safety data sheet of the specific product.

Notes

Technical details, properties, recommendations and information on BAUER products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

Other information

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