

EUFIX EP-JF1

Epoxy grout for basalt tiles with improved workability

DESCRIPTION AND USE

EUFIX EP-JF1 is a waterborne epoxy grout with improved workability. The jointing compound is supplied as a three-component set, which consists of a mixture of epoxy resins, a special hardener and a filler enriched with special admixtures. The product is designed especially for grouting and as adhesive for tiles, paving and elements of fused basalt, but also chemically resistant linings, ceramic elements, etc. It is recommended for special grouting of elements of fused basalt in the interior and exterior, wherever non-absorbent, easy to clean, mechanically, chemically and biologically resistant solution of joints. These are mainly industrial, chemical, agricultural and food operations, etc.

BENEFITS

- easy preparation and application
- very good cleanability with water
- high mechanical resistance
- non-porous and non-absorbent material
- chemical resistance to common industrial cleaning agents, solvents, petroleum products, acids, alkalis, and other chemicals

TECHNICAL PARAMETERS

Flexural strength after dry storage	> 30 MPa
Compressive strength after dry storage	> 45 MPa
Abrasion resistance	<250 mm ³
Shrinkage	<1.5 mm / m
Water absorption after 240 min	<0.1 g
Mixing ratio (by weight)	1.74: 1.16: 7.10
(A) resin: (B) hardener: (C) filler	
Application temperature	+5 to 25 °C
Temperature resistance	100 °C
Color	black

INSTRUCTIONS AND DATA FOR PROCESSING

Preparation of documents

Perform grouting only after the used adhesive has hardened (after the time specified in the technical data sheet of the relevant material has elapsed). Joints must be thoroughly cleaned, free of dust and empty in min. 2/3 of the height of the laid tile. Remove excess glue or sealant before grouting. The joint must be dry, free of dirt, dust and grease. Design the width of the joints in the range of 5 to 10 mm, depending on the element used.

Preparation of the mixture

First, mix the whole component A (resin) thoroughly with the whole component B (hardener), mixing with a slow-running electric stirrer for approx. 2 minutes. After thoroughly mixing components A and B, add (while stirring) the whole component C (powder) and mix very thoroughly again for about 2-3. minutes until the mixture is completely homogeneous (no lumps). The mixture prepared in this way has a set pot life of about 30 minutes.

During processing, the ambient temperature, the substrate and the prepared mixture should be between + 10 °C and

+25 °C. At temperatures below +10 °C the maturation time begins to increase, at temperatures above +25 °C the speed of the curing reaction increases and thus the workability time decreases.

Application

Apply the mixed grout diagonally to the joint with a suitable tool - eg a rubber spatula. The joints must be completely filled with grout. Try not to leave excess grout on the tile surface. This will not increase the consumption of grout and make it easier for you to work with subsequent cleaning.

After the grout has set (approx. 20-30 min.), Wash the surface with clean water and smooth the joints with a damp sponge. To create a perfect surface, let the grout settle again and then carry out a final wash.

The movement of the sponge must always be directed obliquely towards the joints and the sponge must be sufficiently moistened, be careful - not soak excessively! When working, always use two different buckets of water - for clean and dirty water. The water must be changed frequently so as not to leave a film of dirt on the surface of the tiles and grout. If you clean it too soon (as long as the mixture is too plastic), or if you use too much water for washing, there may be an undesired partial washing of the joints or a change in the color of the grout!

The curing compound cures within 24 hours at a temperature of 20 °C. Full curing occurs within 4 to 7 days (depending on temperature and humidity).

Cleaning

Tools and hands can be washed with clean water. Fresh material can be removed from surfaces with clean water. Hardened material can only be removed mechanically.

Notice

EUFIX EP-JF1 must not be used if the air or substrate temperature is below +5 °C and decreases further (mortar setting slows down extremely much and the structure of the material may be disturbed), or vice versa at temperatures above +30 °C (there is a risk of violent reaction).

CONSUMPTION

The consumption of grout depends on the dimensions of the cladding element used and the width of the joint. The calculation is performed according to the following formula:

$$\frac{(A + B) \times C \times D \times 1.6}{A \times B} = \text{consumption in kg/m}^2$$

A = tiling width (mm)

B = lining length (mm)

C = cladding thickness (mm)

D = joint width (mm)

Examples of consumption according to the type of cladding and the width of the joint:

Tile size	Joint width 5mm	Joint width 8mm
200x200x22 mm	1.76 kg / m ²	2.8 kg / m ²
200x200x30 mm	2.4 kg / m ²	3.8 kg / m ²
250x250x22 mm	1.4 kg / m ²	2.25 kg / m ²
250x250x30 mm	1.92 kg / m ²	3.07 kg / m ²

PACKAGING

EUFIX EP-JF1 set 10kg

component A = 1.74 kg

component B = 1.16 kg

component C = 7.10 kg

STORAGE AND TRANSPORT

The product has a storage period of 24 months, provided that it is stored in a dry and ventilated environment at temperatures of + 5 °C to 30 °C. It must be protected from direct sunlight and heat sources. The product is transported by covered means of transport.

SAFETY AND HEALTH PROTECTION

See the product safety data sheet for detailed information.

Production is subject to an integrated quality management system according to ČSN EN ISO 9001: 2009 and 14001: 2005.

Important warning

In the event of a discrepancy between the technical data sheet and the packaging, the information on the product packaging always applies. EUTIT sro products are covered by a warranty on materials and production, their sale is governed by business conditions. Although EUTIT sro assures that all advice, recommendations, specifications or information it provides are correct and accurate, as it does not have direct and constant control over where and how its products are used, it cannot take responsibility for the use of its products. The new issue of the technical data sheet loses the old validity.

CHEMICAL RESISTANCE OF EUFIX EP-JF1

Fully cured EUFIX EP-JF1 is resistant to the following substances
(tested by immersion in the following solutions for 14 days at 20 °C):

Substance - concentration	Permanent load (permanent draft)	Accidental load (drips with regular cleaning)
Ammonia 10%	resistant	resistant
25%	resistant	resistant
Sodium hydroxide 50%	resistant	resistant
Potassium hydroxide 50%	resistant	resistant
Sodium hypochlorite in solution 6.4g / l	durable / discoloration	resistant
Nitric acid 25%	durable / discoloration	resistant
Hydrochloric acid 10%	durable / discoloration	resistant
20%	durable / discoloration	resistant
30%	durable / discoloration	resistant
Acetic acid 2%	partially resistant	resistant
Sulfuric acid 5%	durable / discoloration	resistant
30%	durable / discoloration	resistant
50%	durable / discoloration	resistant
Formic acid 2%	resistant	resistant
Phosphoric acid 10%	durable / discoloration	durable / discoloration
Oxalic acid 120g / l	durable / discoloration	durable / discoloration
Lactic acid 2%	resistant	resistant
Tartaric acid 10%	resistant	resistant
Citric acid 10%	resistant	resistant
Technical petrol	resistant	resistant
Diesel	resistant	resistant
Engine oil	resistant	resistant
Edible oil	resistant	resistant
Gear oil	resistant	resistant
Acetone	not durable	resistant
Benzine	not durable	resistant
Glycerine	resistant	resistant
Toluene	partially durable	resistant
Ethylene glycol	resistant	resistant

It doesn't resist against aromatic, chlorinated hydrocarbons, esters and ketones, in which it swells and changes its properties. The information provided is indicative. If you require resistance parameters for a specific chemical, thermal or mechanical load, contact the supplier's technical support.

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