

# EUFIX EP-JF1

*Epoxy jointing mortar with improved workability*

## DESCRIPTION AND USE

Joint mortar **EUFIX EP-JF1** is a three component product based on epoxy resin and special additives..

**EUFIX EP-JF1** is for jointing and bonding tiles and elements from fused basalt in exterior and interior. It is recommended anywhere that are requires on a non-porous, easy to clean mechanically, chemically and biologically resistant solutions for joints (industrial, chemical, agricultural and food processing and etc.).

## ADVANTAGES

- Easy preparation and application
- Very good clean ability
- High mechanical resistance
- Non-porous and non-absorbing material
- Chemical resistance to conventional industrial cleaning agents, solvents, petroleum products, acids, alkalis and other chemicals

## TECHNICAL PARAMETERS

<b>Bending strength when laid dry</b>	> 30 MPa
<b>Compressive strength when laid dry</b>	> 45 MPa
<b>Wear resistance</b>	< 250 mm <sup>3</sup>
<b>Shrinkage</b>	< 1.5 mm/m
<b>Water absorbing power after 240 minutes</b>	< 0.1 g
<b>Mixing ratio (by weight)</b>	1,93:1,16:6,91
<b>(A)hardener : (B)resin :(C)filler</b>	
<b>Application temperature</b>	+15 to 20 °C
<b>Thermal endurance</b>	100 °C
<b>Colour</b>	Black

## INSTRUCTIONS AND DATA FOR USE

### Substrate preparation

Jointing should be done only when the adhesive hardens (after the time period given in relevant technical specifications). The joints need to be thoroughly cleaned, free of dust and empty in at least 2/3 of the tile thickness. Remove the excessive adhesive or cement prior to bonding. The joint must be dry, without dust and grease. Width of joints should be between 5 and 10 mm.

### Mixture preparation

Add all part B into part A and mixing well together. For mixing do you use electric mixer with slow speed. After good mixing part A with part B (approx. 2min.) add all part C and mixing very well for next 2-3 minutes. The time of workability of jointing mortar is approx. 30minutes in temperature of +20 °C. The time period needed for hardening shortens in higher temperatures and gets longer in temperatures below +10 °C.

## Application

Apply mixed joint mortar into the joints diagonally using a rubber spatula. The joints must be filled with mortar completely. Try to not leave mortar on the surface of tiles. It will not increase the consumption of mortar and cleaning process will be easier.

After the initial setting of mortar (about 20-30min.) clean the surface by damp sponge. For a perfect surface let the mortar cured again and then makes a final cleaning.

Moving of sponge should be always diagonally to the joints and the sponge must be enough moisten but not be unreasonably wet! Always use two different buckets of water - with clean and dirty water. Water must be changed frequently to avoid creation the dirty film from mortar on the surface of tiles and joints. When you start with cleaning to early (when the mortar is still too plastic) or when you use too much water for cleaning then can cause unwanted washout of joints, or changes in the color of the mortar!

Hardening will take in 24 hours at 20 °C. Process of full hardening will be complete in 4-7 days (depending on temperature and humidity).

Joint mortar reaches its full chemical resistance after 28 days.

## Cleaning

Remove mortar EUFIX EP-JF1 from the tools immediately after work by clean water. Hardened material can be removed mechanically only.

## CAUTION

EUFIX EP-JF1 may not be used when the temperature of the air or the substrate drops below +5°C and keeps on falling (hardening of the mortar stops completely) or in temperatures above +30°C.

## CONSUMPTION

Consumption of mortar is dependent on the dimensions of the tiles element and the width of the joint. The calculation is done according to the following formula:

$$\frac{(A+B) \times C \times D \times 1,6}{A \times B} = \text{Consumption v kg/m}^2$$

A = width of tile (mm)

B = length of tile (mm)

C = thickness of tile (mm)

D = width of joint (mm)

Size of tile	Width of joint 5mm	Width of joint 8mm
200x200x22 mm	1,76 kg/m <sup>2</sup>	2,8 kg/m <sup>2</sup>
200x200x30 mm	2,4 kg/m <sup>2</sup>	3,8 kg/m <sup>2</sup>
250x250x22 mm	1,4 kg/m <sup>2</sup>	2,25 kg/m <sup>2</sup>
250x250x30 mm	1,92 kg/m <sup>2</sup>	3,07 kg/m <sup>2</sup>

## PACKAGING

**EUFIX EP-JF1 set 10kg**      Part A = 1,93kg  
    Part B = 1,16kg  
    Part C = 6,91kg

## STORAGE AND TRANSPORT

The product's shelf life is 24 months providing it is stored in dry and ventilated environment in temperatures between +5 °C and 30 °C. It is important to protect the product against direct solar radiation and sources of heat. These products should be transported by covered means of transport

## HEALTH AND SAFETY PRECAUTIONS

For further information, please see the Safety Sheet.

Production is subject to quality management system in compliance with ČSN EN ISO 9001:2009 a 14001:2005.

## CHEMICAL RESISTANCE

Fully hardening and matured EUFIX EP JF-1 resists, for example, the following substances (tested at 20°C)

Substance - concentration	Permanent load (continuous immersion)	Live load (dripping with regular cleaning)
Ammonia 25%	resistant	resistant
Sodium hydroxide 50%	resistant	resistant
Potassium hydroxide 50%	resistant	resistant
Sodium hypochlorite in solution 6,4g/l	resistant/ color change	resistant
Nitric acid 25%	resistant/ color change	resistant
Hydrochloric acid 10%	resistant/ color change	resistant
Acetic acid 2%	resistant	resistant
Sulfuric acid 5%	resistant/ color change	resistant
Formic acid 2%	resistant	resistant
Phosphoric acid 10%	resistant/ color change	resistant/ color change
Oxalic acid 120g/l	resistant/ color change	resistant/ color change
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 resistant	resistant
Benzine	not resistant	resistant
Glycerin	resistant	resistant
Ethylene glycol	resistant	resistant

**Does not withstand** aromatic, chlorohydrocarbons, esters and ketones, in which it swells.

This information is for your orientation only. For information regarding other chemicals or resistance in temperatures higher than 20 °C, please contact technical support of distributor.

### Important note

In case of disagreement between data in the technical documentation and data on the packaging, the determining data is located on the packaging. Products of the company EUTIT s.r.o. are subject to warranty on material and production, and its sale is subject to Conditions for the Supply of Goods and Services. Company EUTIT s.r.o. endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products. New issue of technical specifications makes the old issue redundant.