

EUFIX I

Special mortar for industrial bonding and jointing special basalt tiles

USE

Eufix I is a mortar designed especially for industrial bonding and jointing of basalt tiles on concrete constructions (floor surfaces, walls, and so on). This material can be also used for local repairs of concrete constructions.

PROPERTIES

- Good adhesion to fuse basalt tiles, concrete and steel.
- Good frost-resistance.
- Good resistance to abrasion.
- Good application in masonry way.

Eufix I is fully prefabricates mixture of aggregates, inorganic filling agents, Portland cement, and special additives. By mixing with water in a specified ratio, you will obtain a special adhesive mortar for easy working by masonry work, which is then physically and chemically hardened.

> 7 MPa

BASIC TECHNICAL DATA

Compressive strength after 1 day

7 days	> 30 MPa
28 days	> 45 MPa
1 day	> 2 MPa
7 days	> 5 MPa
28 days	> 7 MPa
	> 1,5 MPa
	> 1,0 MPa
	> 27 GPa
pansion	11 x 10 ⁻⁶ *K ⁻¹
	25 min
	28 days 1 day 7 days 28 days

INSTRUCTIONS AND DATA FOR USE

Substrate preparation

Pay main attention to preparation of the substrate. Remove all the concrete which is disturbed in any way, or which is contaminated by oil or any other pollutant. New concrete surfaces must be well matured. The last step in preparation of substrate is washing of the surface by pressurised water, this step remove all loose particles such as dust and dirt. You must soak surface of concrete before application but water can't stay on the surface (remove surplus water from the surface).

Preparation of adhesive mortar

Adhesive mortar Eufix I is prepared by thorough mixing of the relevant quantity of the dry powder and water. Recommended mixing ratio is 3,4-3,6 L of water for 25 kg of dry mixture. For mixing mortar you use the stirring spiral paddle with 150-500 rpm/min, or in a concrete mixer with forced mixing for at least 3 minutes. It is necessary to leave the mortar standing up for a minimum of 2-3 minutes after then short mixing again (about 1min.). The mortar consistency for application

should be as such, that it does not stick to the trowel but it should not be of crumbling consistency, which means workability of about 140-150 mm (according ČSN 72 2441). The ratio of mixing dry powder and water is always stated also on the label of the packaging.

Workability time

The specific time for workability depends on the ambient temperature and the temperature of the construction. At temperature of 20 °C, the period of workability is approximately 25 minutes. It is not possible to carry out repairs when the temperature of the air or the construction drops below +5 °C or when it rise above +30 °C.

Application

Repair of screeding concrete

Eufix I can be used for repair of concrete in thickness from 5mm to 40mm. The mortar must be applied so as to avoid capture of air under mortar and the mortar must be thoroughly incorporated into the screeding concrete. It is very important because the final adhesion of repair with screeding concrete depends on that. For required thickness of layer you can use suitable technique setting-on by trowel or forcing-on by finishing trowel. The final surface finish make by steel's or polystyrene's finishing trowel.

Bonding and jointing of basalt tiles

The mortar must be applied so as to avoid capture of air under mortar and the mortar must be thoroughly incorporated into the screeding concrete. Mortar put on the surface by trowel. The thickness layer of mortar for bonding must be between 5 to 30mm. Basalt tile must be placed immediately on to the fresh mortar bed. For final setting of basalt tiles you can use rubber hammer. The joints between tiles should be at the between 5 to 7 mm. Jointing of basalt tile can be done after wilting mortar bed. Jointing is done by same material as for bonding (Eufix I). For better working is good to mix mortar for jointing with water on the upper limit (from recommended level). For application of jointing mortar is good to use rubber squeegee. The joint must be completely filled. After initial wilting of jointing mortar clean basalt tile by damp sponge.

Curing

It is recommended to protect joints of tiles against direct sunlight, warm wind it's necessary to prevent quick evaporation of water. It's fully enough to soak the joint or tile and cover it by foil (so water can't evaporate).

Limitations

The mortar Eufix I may not be used when the temperature of the air or the substrate drops below +5 °C and keeps on falling.

COVERAGE

Eufix I 23-24 kg/m²/cm of thickness

include jointing

PACKAGING

Eufix I 5 kg plastic bucket

25 kg bag (1,05 t pallets)

Storage and transport

It is necessary to store the material in a dry and ventilated place. These products should be transported by covered means of transport.

Health and safety precautions

For further information, please see the Safety Sheet

Adhesive mortar Eufix is non-flammable

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



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Eufix S - cementitious adhesive for tiles for tiling internally and external flooring - C2T

Initial adhesive strength > 1,0 MPa
Tensile adhesion strength after heat ageing > 1,0 MPa
Tensile adhesion strength after water
immersion > 1,0 MPa
Tensile adhesion strength after freeze-thaw
cycles > 1,0 MPa

Open time: tensile adhesion strength > 0,5 MPa; > 20 min Slip < 0,5 mm