

Technical Information

Palas Flexible Tile Adhesive FLE XO

Product description

PALAS FLEXIBLE TILE ADHESIVE FLE XO is a powder mineral adhesive based on high quality cement and polymer powder, suitable fine fillers and special additives that improve the effect of cement in wet conditions.

Features:

- It is applied efficiently and easily
- Excellent adhesion and strength
- Extended open working time 30 min
- Resistant to vertical slip
- Good stability and flexibility
- Moisture and frost resistant
- Layer thickness 4-10 mm
- For absorbent and non-absorbent floor and wall tiles in interior and exterior

Purpose

Used for flexible adhesion of absorbent and non-absorbent ceramic tiles on interior and exterior, floor and wall surfaces, for all cement-based (mineral) substrates. Suitable for gluing tiles on tiles, spaces with underfloor heating, as well as for balconies and terraces.

Surface preparation

Mineral surfaces made of concrete, brick, cement mortar, gas concrete etc. must be dry, clean, firm and unfrozen, wearable and free of oil or paint residue.

Working conditions

- The optimum operating temperature is from +10°C to +30°C.
- It must not be applied at temperatures below +5°C or above +35°C and humidity higher than 80%.
The above conditions refer to the space, the substrate and the material itself.
- Do not work in rain, fog, directly exposed to strong sun and wind.
- High humidity and low temperatures can prolong the drying time of the material.



TOOLS CLEANING

Immediately after use, the tool should be thoroughly washed with water. If the tool is not washed immediately after use, remove hardened residues mechanically. Removal can be facilitated by immersing the tool in water for several hours.

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Instructions for application

Slowly add the content of the 25 kg bag into cca 6 L of water (24%) with continuous stirring using an electric mixer, until the mass becomes homogenous. Leave the prepared mass for 10 minutes, then stir it once more, after which the adhesive is ready for application. The mixed adhesive must be used within a period of 2 hours.

Apply the adhesive using a notched trowel (notch depth 4-10 mm) so that at least 2/3 of the ceramic tile is in contact with the adhesive. Install the tiles with a space of 2-15 mm between them. Level and press the tiles well; adjustment is possible within a period of 5-10 min.

Open time for work is cca. 30 minutes, so the work surface must be planned accordingly.

Drying time of grout in normal conditions ($t=+20^{\circ}\text{C}$, rel. hum. 65%) is 24 h. In case of high humidity and low temperatures, the drying time will be longer. The drying time is 7 days for full load.

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Technical data

Composition:	Cement, polymer powder, quartz sand, mineral fillers, relevant additives.
Appearance:	Grey powder.
Bulk density, kg/m ³ :	1250 - 1350
Volatile matter at 105°C, %:	Max. 0.2 – 0.7
pH:	11 - 13
Consumption:	2.5 - 3.5 kg/m ² , depending on coating thickness and substrate type.
Mixing ratio with water:	25 kg : 6 L (water)
Method of application:	Notched trowel
Drying (t = + 20°C, rel. hum. 65%):	Grouting after 24 h, full load after 7 days
Adhesion (EN 12004-2: 2017, 8.3):	≥ 1.0 N/mm ²
Open time (EN 12004-2:2017, 8.1):	≥ 30 minutes
Slip (EN 12004-2:2017, 8.2):	≤ 0.5 mm
Flexibility (EN 12004-2:2017, 8.6):	≥ 2.5 mm and < 5 mm
Class (EN 12004):	C2TES1 (improved cement adhesive, slip resistant, with extended processing time, subject to transverse deformations)
Content of water-soluble Cr(VI) (EN 196-10):	< 0.0002 %
Packaging:	Natron bag 25 kg.
Storage and shelf life:	Originally sealed product, stored in dry space, protected from direct sunlight and freezing (+5°C do +30°C) is usable until the date marked on the packaging.

The technical data are given in order to achieve optimal results by using products manufactured by HELIOS Srbija a.d. Contact our technical service for any additional information. The manufacturer reserves the right to make changes.