

VOLMA-NIVELIR-EXPRESS

Self-leveling calcium sulfate screed flooring for indoor use
EN-13813
CA-C12-F3-B2,0

Product description

Seamless calcium sulfate screed flooring for indoor use

Packing and storage

VOLMA-NIVELIR-EXPRESS is packed in 20 kg paper bags. Bags with dry mixture should be stored in dry conditions on wooden pallets. Period of storage in undamaged original pack - 12 months.

Scope of application

Intended for manual and machine leveling of concrete and sand-cement sub-flooring indoors for subsequent decorative coating in thickness from 5 to 100 mm. Recommended for use in residential and public premises with dry and normal levels of humidity.

General properties and advantages

- Gypsum based
- For manual or machine application
- Suitable for use with underfloor heating systems
- Non-shrink

Surface preparation

The surface should be solid, dry, and free from dust, dirt and oil. Treat the surface with deep-penetration primer. Before pouring, stick damping tape around the edges of the walls and columns where they meet the floor. All metal elements which will come into contact with the mortar must be anti-corrosion treated. Set the required thickness of the layer using a datum leveling bar. Define sections for pouring the screed floor. If the area to be leveled is more than 50 square meters with a diagonal of more than 10 m, create an expansion joint in the flooring, above the existing joints in the surface to be covered. Pour the mortar after the primer is completely dry.

Mortar preparation

For manual application: Pour the dry mixture into clean water (water temperature from +5C +20C), using 0.29-0.34 l. per 1 kg, and stir for 5 minutes with a concrete mixer till the mass becomes homogeneous. Let the mortar settle for 3 minutes and stir it again.

For machine application: Pour the dry mixture into the hopper of plastering machine and obtain the required mix consistency by adjusting water consumption. Consistency check: Pour 1 l. of the mortar onto an even and non-absorbent surface. The mortar should spread out into a circle of diameter 50-55 cm.

Operation procedure

Pour the prepared mortar smoothly until the required thickness, avoiding intervals for more than 10 minutes. The designed surface area must be poured and levelled within not more than 60 minutes from the moment of first batch mixing. Then, starting with the areas which meet walls and columns, remove air bubbles using a spiked roller. Move the roller gradually along and across the poured surface, creating a wave. For the first two days while the poured screed flooring is drying, drafts and direct sunlight should be avoided, and natural aeration and ventilation of premises should be provided. The drying time for poured flooring depends on its thickness, and the temperature and humidity of premises. Lay the decorative coating onto the levelled floor not earlier than in 7 days after pouring. The residual water content of the poured flooring should not exceed 1% when coating is applied.

Use with underfloor heating system

VOLMA-NIVELIR-EXPRESS is suitable for use with underfloor heating system, but the temperature of the heating element must not exceed +50C. The minimal thickness of the poured screed flooring when used with underfloor heating system is 40 mm. If the underfloor heating system is mounted into the basic floor layer, the thickness of the poured flooring may be from 5 to 100 mm. The underfloor heating system may be switched on not earlier than in 7 days after pouring, and with the temperature set at 25-27C for 2-4 days. Full operation of underfloor heating system is allowed only 28 days later.

Technical specifications:

Compression strength class	C12 (12 N/mm ²)	EN-13813
Compressive bend strength class	F3 (3 N/mm ²)	EN-13813
Strength of adhesion to the base	B2,0 (2.0 N/mm ²)	EN-13813
pH	More than 7.0	EN-13813
Fire resistance classification	A1	EN-13813