



# LINEA 820 M

Floor levelling mortar, 5 to 20 mm, CT/C40/F7 according to EN 13813

- ▶ With a maximum layer thickness ready for foot traffic already after 24 hours
- ▶ Excellent adhesion to the substrate
- ▶ High strengths
- ▶ Suitable for underfloor heating
- ▶ For outdoor and indoor use
- ▶ Non-self-levelling
- ▶ Good workability



**PRODUCT DESCRIPTION** Polymer-enriched, cement-bound floor levelling mortar for new cement coatings, layer thickness 5 to 20 mm.

**FIELD OF USE** For levelling of old, damaged concrete floors and new cement screeds prior to laying the flooring, for outdoor and indoor use.

Prior of application of floor coverings such as rubber, textile, parquet, floor levelling mortar LINEA 820 M should be additionally covered with LINEA 803 SL, LINEA 810 SL or LINEA 811 SL levelling compound (1-3mm thickness).

- PRODUCT PROPERTIES**
- With a maximum layer thickness ready for foot traffic already after 24 hours
  - Excellent adhesion to the substrate
  - High strengths
  - Suitable for underfloor heating
  - For outdoor and indoor use
  - Non-self-levelling
  - Good workability

## PRODUCT DATA

### BASIC INFORMATION

**Appearance** Grey powder

**Packing** 30 kg in bag (plastificated) / 1260 kg (42 x 30 kg) on pallet

**Storage and expiration date** 12 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging.

### TECHNICAL DATA

**Chemical base** Portland cement, selected aggregates and additives

**Density**

- bulk density: 1,66 kg/l EN 12192-1:2002
- fresh mortar density: 2,21 kg/l EN 1015-6:1999
- hardened mortar density: 2,14 kg/l EN 13892-2:2003

**Grading**  $D_{max}$ : 3,15 mm EN 12192-1:2002

**pH** 11-13,5 at 20°C

**Flexural Strength after 28 days**  $\geq 7$  N/mm<sup>2</sup> (F7) EN 13813:2003

**Compressive Strength after 28 days**  $\geq 40$  N/mm<sup>2</sup> (C40) EN 13813:2003

**Layer Thickness** 5 - 20 mm

**Fire resistance** A<sub>1</sub>fl EN 13501-1:2007

**Linear Shrinkage after 28 days** 1,12 mm/m EN 12617-1:2003

## INSTRUCTIONS FOR USE

**CONSUMPTION** 20 kg/m<sup>2</sup> for each cm of thickness

**BASE** Surface to which LINEA 820 M is applied must be of a sufficient solidity, free of dirt, loose particles and water-repellent substances, panel oils and other coatings which prevent adherence.

**PREPARATION** A day prior to the application of LINEA 820 M the surface should be intensively moistened for a day. Water remaining on the surface should be removed using a vacuum cleaner. Before the application of LINEA 820 M the KEMALATEX binding layer should be applied: "fresh on fresh" procedure with 1:2 cement ratio. On less demanding surfaces KEMACRYL can be used instead of KEMALATEX.

**MIX RATIO** Approx. 4,2 l of water per 30 kg of dry mixture

**MIX TIME** Add dry mixture to clean water while constantly mixing until the mixture is completely homogeneous. After the compound swells (app. 5 min.) it should be mixed again.

**MIX TOOL** Mix mortar in a clean container using suitable electrical mixer.

**INSTALLATION** Apply using a trowel on the binding layer KEMALATEX: "fresh on fresh" procedure with 1:2 cement ratio. Prepare only as much compound as you plan to use.

**TOOL** Steel trowel.

**CLEANING OF TOOL** Clean the tools immediately after use. Dry compound can be removed only mechanically.

**USAGE TIME** approx. 90 minutes

**COAGULATION** Ready for foot traffic in min. 24 hours.

Suitable for panelling when dry or in approx. 48 hours (thickness of 10 mm).

## LIMITATIONS

**BASE TEMPERATURE** +5°C min./+30°C max.

**AIR TEMPERATURE** +5°C min./+30°C max.

**MATERIAL TEMPERATURE** +5°C min./+30°C max.

- WARNINGS**
- Times specified in the technical sheet were measured at the temperature of 23°C and relative air humidity of 50%. With higher temperatures prescribed time can be shortened while prolonged at lower temperatures.
  - Use only recommended amount of water. Use only mixture from undamaged packaging. Do not overdo the layer thickness.
  - Protect freshly installed material from freezing, rain and other weather conditions. The material should not be used at (surface, air, material) temperatures lower than +5°C or higher than +30°C.
  - The compound should be protected against rapid drying for at least 3 days after the application in order to provide complete hydration of cement and prevent formation of cracks.
  - Cover the surface with polyethylene foil fastened with self-adhesive tape, or KEMACURE EKO liquid agent for fresh concrete maintenance.
  - The compound should be applied only to healthy and prepared surface.
  - No water should be added when smoothing the surface because discolouration and cracks can occur.

**Recommendation:** Remains of the unhardened/unset material must be disposed in accordance to the local legislation.

**Data source:** All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

**Local restrictions:** Due to specific local regulations the installed product can differ from country to country. For exact instructions a country specific technical sheet should be obtained.

## PROOFS

**NORMS/ STANDARDS** In accordance with European standards EN 13813:2003

## SAFETY DATA

Irritating. Contains cement. Irritating to eyes, skin and respiratory tract. Contact with skin may cause hypersensitivity. In case of eye contact wash thoroughly with water at once and consult a doctor. In case of skin contact flood with a lot of water. Keep away from the reach of children. More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.



## LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.