

TECHNICAL DATA SHEET

LINEA 830 SL

Fast-setting self-levelling floor compound, 5-30 mm, C35/F10/B2 according to EN 13813



PRODUCT DESCRIPTION

Fast-setting, polymer-enriched, cement-based floor levelling compound for indoor and use.

Field of use

For cement coating onto existing concrete and for thin-layer levelling of all types of concrete foundations and cement screeds prior to laying the flooring (parquet, wood flooring, ceramic tiles, carpeted floor and all types of PVC floor coverings), layer thickness 5-30 mm, for indoor use.

Product properties

- With a maximum layer thickness ready for foot traffic after 4 hours
- Self-levelling
- Non-shrinking
- Suitable for underfloor heating
- For indoor use
- High strengths
- Does not contain casein
- Fast-setting

PRODUCT DATA

Basic information

Appearance	Grey powder
Packing	25 kg in bag (plastificated) / 1200 kg (48 x 25 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

Type of product	Cement-based polymer enriched compound
Density	- bulk density: 1,23 kg/l
	- fresh mortar density: 2,1 kg/l
	- hardened mortar density: 2,05 kg/l
Grading	D _{max} : 1 mm
pH	11-13,5 (at 20°C)
Flexural strength after 28 days	>= 10 N/mm ² (F10)
Compressive strength after 28 days	>= 35 N/mm ² (C35)
Bond strength onto concrete	>= 2 N/mm ² (B2)
Layer Thickness	5- 30 mm
Fire-test classification	A1 _{fl}
Shrinkage after 28 days	0,6 mm/m

INSTRUCTIONS FOR USE

Consumption	1,5 kg/m ² for each mm of thickness
Base	Surface to which LINEA 830 SL 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. LINEA 830 SL is applied on completely dry grounding.
Base preparation	Prior to the application of LINEA 830 SL the moisturizing or impregnation should be applied with polymer dispersion KEMAGRUND A diluted with water in ratio at least 1:1 until 1:2. Instead of KEMAGRUND A, polymer dispersion KEMACRYL diluted with water in ratio 1:1 until 1:2 can be used. Applying of levelling compound LINEA 830 SL is possible after thorough drying of impregnation.
Mix ratio	5,5-6,1 l of water per 25 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. 2 min.) mix again.
Mix tool	Mix compound in a clean container using suitable electrical mixer.
Installation	Pour the compound on the prepared base (dry undercoat) and spread out with steel trowel.
Tool	Steel trowel 30 - 40 cm length.
Cleaning of tool	Clean the tools immediately after use. Dry compound can be removed only mechanically.
Usage time	20-30 minutes
Coagulation	Ready for foot traffic in 4 hours. Linings should be laid after 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	<ul style="list-style-type: none"> • 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. • 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. • 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. • Optimum conditions are 15 - 25°C and relative humidity below 65 %. Low temperatures, high humidity and greater thickness will delay, whilst high temperatures and low humidity will accelerate the setting, drying and readiness for covering. • In summer, store in cool conditions and use cold water. • Do not use in permanent wet areas.
	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
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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.