

Sika® Level-110

Fast setting self-levelling mortar up to 10 mm layers.

General Indications

Description One-pack premixed cementitious self-leveling mortar, fluid consistence featured, consisting from high-resistance cements, selected silicon/quartz mineral charges and specific additives. Specific to realize regularizations of indoor substrates subject to be successively cladded with ceramic, plastics, natural stones, floating or fixed parquet, linoleum, moquette.

Fields of application Fast-setting leveling in 1 to 10 mm thickness of indoor substrates before cladding light traffic areas (Class P2 according to UPEC rules) such as flats, libraries and similar areas.
Fast-setting leveling in 3 to 10 mm thickness of indoor substrates before cladding heavy traffic areas (Class P3 according to UPEC rules) such as offices, airports, schools, hospitals, public areas, etc.

Advantages

- One-pack compound
- Applicable by pump
- High mechanical strength
- Optimum bonding capacity
- Quick-setting
- Very smooth surface

Features

Description Fast-setting self-leveling mortar

Appearance Brown powder

Packing 25 kg bag

Shelf life 8 months in the original packaging, in dry environment.

CE Labelling EN 13813 CT-C30-F7

Technical Data

Consumption 1.4-1.5 kg/m² approx. per mm of thickness

Temperature during application min. +5°C - max. +30°C

Curing time 2 min. approx.

Pot life 20 min. approx.*

Setting time Start: 40 min. approx.* - end: 80 min. approx. *

Treadable time Treadable after 3-4 h approx. *

Cladding time Ceramic or fabrics: after 24-36 h approx. Wood or plastics: after 48 - 72 h approx.*

* Values got at room conditions: 23°C – R.H. 50%. Higher temperatures reduce the indicated lapse of time, oppositely, lower temperatures increase them.

Construction



Applicable thickness	Min. 1 mm. Min. 3 mm if parquet has to be applied - max. 10 mm		
Compression Resistance	1 day 28 days	≥ 15 MPa ≥ 30 MPa	UNI EN 13892-2 UNI EN 13892-2
Flexural resistance	1 day 28 days	≥ 3.0 MPa ≥ 7.5 MPa	UNI EN 13892-2 UNI EN 13892-2
Thermal resistance	From -30°C to +80°C		
Allowed substrates /primers	Utilize Sika® Primer-11 W or, alternatively, Sika® Primer-21 W diluted 1:1 with water for cement-based absorbing screeds, anhydrite screed, heating floor (water system); Utilize Sika® Primer-21 W genuine for concrete screed helicopter finished, linoleum, PVC or vinyl, ceramic or marble floors.		

Application Conditions

Method of use

Substrate preparation

The substrate must be perfectly flat, tight and free from parts easily removable, non-deformable and aged. By evaluation of the support, apply the specific primer as indicated previously.

Mixing procedure

Mix one bag with 6 liters of water ($24\% \pm 1\%$), utilizing an electric blender with a suitable mixing spiral at low speed, in a clean bucket, up to obtain a smooth paste free of lumps. To avoid the formation of lumps, very harmful, it is advisable to proceed by dosing at the beginning a low quantity of water so in order to obtain an homogeneous mixture, but very viscous. Successively, add the remaining amount of water to obtain the optimal fluid-viscous consistency of the mixture.

Do not exceed in any way with the amount of water that would cause the detachment of leveling.

Allow the mixture to cure 2-3 minutes, scrape the bucket bottom and check that there was no segregation, otherwise add more powder, stir briefly and pour the mixture onto the substrate.

Use 500 rpm max. blender; do not mix at faster rate because of mechanical strength decay of the cured product. The product can be pumped through specific devices (contact the Technical Service).

Application

Pour the product onto the substrate and spread with flat trowel, realizing minimum thickness of 1 mm.

Immediately after having distributed the blended material, move a spiked roller over the whole surface, before the product starts setting.

If Sika® Level-110 were applied as a substrate intended for wooden floors, the thickness to be applied must not be less than 3 mm.

Warnings

Do not add more water to the already hydrated mixture, do not add anything not provided in this data sheet.

Do not use for outdoor floorings.

Not suitable for floorings subject to continuative rising damp.

Wait the expected time between the application of primers and the application of the product.

Do not use on flexible substrates, or on wood.

Do not apply on thickness higher than 10 mm.

By the weather and application conditions on building site, drying times may be substantially different.

Safety measures

Precaution

For further informations and advices regarding safety rules, uses and storage of the chemical product users should refer to the latest Safety Data Sheet, in which are explained physical, toxicological and environmental informations along with safety behaviours.

Ecology

Do not dispose unused product and empty packaging into the environment. See the latest Safety Data Sheet for further informations.

CE labelling

	
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Factory 1026	
EN 13813 CT-C30-F7	
Screeds/Protective Coatings for indoor building (systems as per Technical Data Sheet)	
Compression resistance	C30
Flexural resistance	F7

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions within their shelf life. In practice, the differences in materials, substrates and actual site conditions are such, that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under "www.sika.it".



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