

Floor K300

Self-levelling, quick-hardening, polymer-modified cement mortar, applicable at thicknesses of between 3 and 40 mm, conforming to classes CT - C30 - F5 of the UNI EN 13813 standard

Floor K300 is a self-levelling, quick-hardening, polymer-modified cement mortar, with controlled hygrometric shrinkage, made with high-resistance hydraulic binders, spherical quartz aggregates, special additives and HT fibres. **Floor K300** conforms to classes **CT - C30 - F5** of the **UNI EN 13813** standard. Formulated in the **Licata SpA Research and Development Laboratories**, **Floor K 300** stands out for its easy workability, superior adhesion strength, excellent self-levelling property, combined with superior mechanical and surface strength. Dimensional stability, guaranteed by a near-zero hygrometric shrinkage, allows the product to be applied in variable thicknesses of between 3 and 40 mm, minimising cracking throughout all the product life phases (application, plastic phase, curing). The perfect balance between extended pot life and quick hardening are the added values which the **Licata SpA Research and Development** team devoted specific studies to.



MAIN AREAS OF APPLICATION

Floor K300 is specifically designed for evening out and levelling cement substrates in internal and external settings (prior to protection), and it is also applicable onto old substrates provided they are firm. For application onto other types of substrates (compact, anhydrite, magnesium-based concretes, old ceramics, marble tiles, natural stones and parquet flooring), contact our engineering department. **Floor K300** is not suitable for application onto substrates subject to bending.

Floor K300 allows for subsequent laying of:

- Ceramic tiles
- Rubber
- Natural stones
- Parquet flooring
- Fitted carpet
- Resins

For application on other types of substrates, please contact our engineering department.

CHARACTERISTICS

- Excellent self-levelling capacity: The use of special additives and inert spherical quartz materials with a constant particle size curve make this product extremely spreadable, easy to work and affording superior self-levelling properties.
- Superior mechanical and surface strength: The high performance hydraulic binders, the selected inert materials with a constant particle size curve make for superior mechanical strength, allowing the identification of **Floor K300** as conforming to classes **CT - C30 - F5** of the **UNI EN 13813** standard.
- Applicable between 3 and 40 mm: Dimensional stability, guaranteed by a near-zero hygrometric shrinkage, allows the product to be applied in variable thicknesses of between 3 and 40 mm, minimising.
- Quick hardening: **Floor K300** can be walked over after 4 hours and tiled over after 24 hours
- Prolonged pot life: The use of latest-generation additives guarantee a pot life that is 20 minutes longer.



- High adhesion strength: **Floor K300** is a polymer-modified mortar. The adhesion values > 1.5 MPa are proof of its reliability over time.

APPLICATION METHOD

Preparing the substrate

Mechanically remove all flaking parts or easy to peel off. Clean the area of application thoroughly so that it is free of dust residue from surface treatments such as: detergents, oily substances, mineral or organic greases, waxes, traces of gypsum and salt. In the case of rising damp, a vapour barrier needs to be placed in between. In the presence of cracks or gaps in the substrate, first restore them using repair mortar **Repair 450** or **250**.

Wet the substrate with water until saturated, so that it is in conditions of Saturated surface dry (SSD).

Particularly porous or absorbent surfaces must be treated with a dedicated primer **Aggrappante LG**.

Preparing the mixture

You need 5.25-5.75 litres of clean water (UNI EN 1008) for every 25 kg bag (i.e. 21-23% in mass).

Pour the product into a clean tub, containing $\frac{3}{4}$ of the mixing water, mix for around 3 minutes with a mixer at low speed, gradually adding the remainder of the water until you achieve an even, fluid mixture without any lumps. Avoid splitting the packs to perform partial mixtures.

The product stored in open bags and only used in part may no longer meet the technical characteristics listed in this document.

Application

Pour the product continuously in thicknesses of between 3 and 40 mm and even out using a trowel or squeegee. For applications in thicknesses of between 3 and 10 mm, we advise you also use an air bubble removal roller. **Floor K300** can be walked over after 4 hours, tiled over after 24 hours, subject to residual humidity check, and it develops its resistance fully after 28 days of curing.

Do not apply **Floor K300** on substrates if there is a film of water on the surface, if they are completely dry or in extreme conditions, such as: substrates exposed to the midday sun or frozen over.

Make sure the temperature of the room, of the substrate, and of the product during application falls between +5 °C and +35 °C.

PRODUCT INFORMATION

Appearance	Grey powder
Particle size	<0.5 mm
Powder consumption	16-17 kg/m ² every 10 mm in thickness
Mixing water	21-23% of powder weight
Workability time at 20 °C	≈ 20 minutes
Application thickness per coat	3-40 mm (product as it is)
Application temperature	Between +5 °C and +35 °C
Can be walked over	after 4 hours
Tilable	after 24 hours
Storage	8 months in a cool, dry place in sealed packs
Packaging	25 kg
Density	1950-2050 kg/dm ³
Mixture pH	approx. 12

PERFORMANCE

Characteristic	Test Method	Normative requirement	Performance
Compression resistance	prEN 13892-2	Performance declared	C30
Bending strength	prEN 13892-2	Performance declared	F5
Permeability to liquid water	UNI EN 1062-3		0.200 kg/m ² *h ^{1/2}
Water vapour permeability coefficient	UNI EN 12086		68
Equivalent air layer thickness (Sd)	UNI EN 12086		0.99 m
Setting time	EN 12706		45-90 min
Shrinkage and swelling	prEN 13454-2		<0.25 mm/m
Texture	prEN 13454-2		330 mm
pH value	prEN 13529		11
Reaction to fire	prEN 13454-2		A1

WARNINGS

- Professional-grade product.
- Do not water or more powder to the mixed product.
- Alkaline material: protect your eyes and skin during application.
- After use, wash tools with water while the mixture is still fresh.
- The room temperature and degree of humidity affect the workability, grip and drying times.
- Monitor the product curing suitably for at least the first 24 hours after laying, protect fresh mortar against rapid drying, against direct sunlight, strong wind and heavy rain.

SAFETY

As regards the information concerning proper product disposal, storage and handling, please consult the relevant Safety Data Sheet.

NOTES

This technical data sheet replaces and cancels all previous versions.

The indications and performance levels provided in this document are based on our current technical-scientific knowledge and in any case should be considered as purely indicative since the conditions of use are in no way under our control. The purchaser must therefore check the suitability of the product for his or her specific needs, assuming all responsibility deriving from its use. Our technical-sales network guarantees a speedy response and is at your disposal for any clarifications or queries regarding the use and processing of **licata SpA** products.

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