

BETOLEVEL® 15

Self-levelling quick hardening mortar for industrial floors.

BETOLEVEL® 15 is a self-leveling, quick hardening, single-component cementitious mortar modified with polymers, for regulating, repairing and levelling industrial floors in thicknesses between 3 and 15 mm. It complies with the requirements of standard EN 13813.

FIELDS OF APPLICATION

- Regulating and levelling industrial concrete and mortar floors both indoors and outdoors.
- Levelling of small and large surfaces both on new sites and renovated sites.
- Refurbishing floors in car parks, without the need for additional coating.
- Levelling of industrial floors.
- Regularization layer prior to application of flooring finishing resin systems.
- Flooring levelling mortar for fixing ceramic tiles, marble, carpet, platform, PVC, cork, plastic floors, paint, etc.

PROPERTIES

- High levelling capacity.
- Easy commissioning work by pouring or pumping.
- High mechanical resistance and good surface finish.
- Suitable for use with underfloor heating systems.
- Excellent adherence and compactness.
- Quick hardening and drying without cracks.
- Can be walked on after 3-4 hours (at 20 °C, 50 % RH).
- Suitable for outdoors.
- Suitable for levelling surfaces with thicknesses between 3 and 15 mm.

HOW TO USE

Preparing the substrate:

It must be firm, compact, and dry, clean and free of loose particles, cement slurry, grease, oil, wax or paint. Therefore any of these product leftovers must be cleaned off, and any dust removed by vacuuming.

If there are any large cracks in the substrate, these are to be repaired first with a mortar from the **PROPAM® REPAR** range.

It must be an open pore surface, and it is advisable to treat this surface with shot blasting or diamond polishing.

Primer:

For porous substrates, in order to seal, regulate the absorption and prevent the appearance of bubbles in the coating, it is advisable to use the **PROPAM® PRIMER SOL** primer, leaving it to dry between 1 and 4 hours (dry to the touch). In the case of non-porous substrates, it is advisable to use the **PROPAM® GRIP** primer, leaving it to dry between 30 and 90 minutes (dry to the touch).

Mixing:

Mix the contents of a 25 kg sack for 4 - 5 minutes with approximately 5 litres of water, until it is perfectly smooth. It is advisable to use a vertical axis mixer or a low revolution beater.

For larger quantities, use a cement mixer. Pour 2/3 of the water needed into the concrete mixer when it is running. Add all the mortar gradually until a uniform, smooth mixture is obtained, add the remaining water and beat until an even mixture is obtained.

Leave to rest for 2 minutes and mix again.

Application:

Pour or pump the mixed product on to the substrate that is primed, or failing this, which is completely saturated with water for at least 24 hours, without waterlogging, and spread preferably with a special rake for self-levelling mortars or a trowel. Then immediately use a bristled roller of a suitable size according to the thickness applied to help remove any trapped air.

The maximum application thickness is 15 mm per layer. If applying a second layer, this must be applied as soon as the first layer can be walked on. If the first layer is completely dry, it will be necessary to apply a primer with **PROPAM® PRIMER SOL**.

Ready for use:

BETOLEVEL® 15 can be walked on and it can be sanded after 4 hours (20 °C, 50 % RH). Wait between 12 and 18 hours before covering with a light pavement. To cover with ceramic tiles, wait between 8 and 12 hours, and if applying a paint finish, wait 72 hours.

The times vary with the temperature and relative ambient humidity, therefore it is convenient to measure the humidity with a contact hygrometer.

Curing:

In the case of high temperatures, low relative humidity or sun exposure even though it is not direct, wind or rain, the surface must be protected to prevent it from drying out too quickly, which could lead to fissures and lack of strength. In these cases, once set, cure with irrigation water for as long as possible.

Tool cleaning:

The tools are to be cleaned with water immediately after use. Once hardened, it can only be removed mechanically.

COVERAGE

Approximately 1.6 kg of **BETOLEVEL® 15** is needed per m² and mm thickness.

This amount is theoretical and depends on the condition and roughness of the substrate, and so it must be adjusted directly on site.

PACKAGING

25 kg sacks.

Colour: Grey.

STORAGE

12 months, in its original closed packaging, in a cool, covered place, protected from humidity, sunlight and freezing temperatures.

INDICATIONS TO TAKE INTO CONSIDERATION

- Do not apply under 5 °C, or when lower temperatures are forecast for the next 24 hours.
- Any possible concreting and expansion joints in the base must be respected, by sealing them with **BETOFLEX**.
- It is advisable to make a perimeter joint with elastic material on surfaces over 12 m² before applying the product, for example with 1 cm expanded polystyrene.
- Make partition joints for surfaces over 20 m², with a 6 mm joint and fill it in with **BETOFLEX**.
- Respect the water mixing specified and do not add cement, sand, colouring agents or any other substance that may affect the properties of the material.
- Do not apply thicknesses above those specified.
- Although **BETOLEVEL® 15** can be left visible, it is advisable to coat it or seal it with a suitable resin to improve durability and the surface finish.
- On substrates with underfloor heating, switch off the heating 24 hours before applying the product, and wait 48 hours before switching it on again.

TECHNICAL DATA

Density of mixed mortar	2.0 g/cm³
Adherence (> 7 days)	> 1.5 N/mm²
Trafficability (20 °C - 50 % R.H)	3 h
Pot life (20 °C)	20 - 25 min
Mixing water	20 ± 1 %
Superficial humidity after 48 hours	< 4 %
Application temperature	5 °C - 35 °C
Thermal conductivity	1,1 ± 0,1 W/mK

MECHANICAL STRENGTHS (N/mm²) 20 °C

	Water	6 h	1 day	7 days	28 days
Compression	20 %	10.7	19.4	28.4	38.4
Flexotraction	20 %	3.0	4.5	6.2	8.3

CE MARKING



EN 13813

Cementitious mortar for screeds and floor finishing
CT-C30-F6

Emission of corrosive substances	CT (cement)
Compression strength	≥ 30 N/mm²
Flexural strength	≥ 6 N/mm²
Reaction to fire	Class A1
Emission of hazardous substances	See SDS

HEALTH AND SAFETY

All the information about conditions of usage, use, storage, transport and removing chemical waste is available on the product Safety Data Sheet.

The product and its packaging must be disposed of according to current legislation and it is the responsibility of the product end user.

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LEGAL NOTICE

The data contained in this document is based on our experience and technical knowledge, gained during laboratory assays, and our bibliography. We will not be responsible for any product applications not indicated in this file. The dosage and consumption data are only guidelines, based on our experience, and may alter due to atmospheric or on-site conditions. For correct dosage and usage amounts, it is necessary to conduct a trial or assay "in situ", for which the client is responsible. If you have any doubts or require additional information, please contact our technical department. December 2016.



www.propamsa.es

PROPAMSA S.A.U.

C/Ciments Molins s/n, Pol. Ind. Les Fallules

08620 Sant Vicenç dels Horts, (Barcelona)

Tel. (+34) 93 680 60 40 - Fax (+34) 93 680 60 49

