

SL 416

Quick drying self-levelling cement floor screed for thicknesses from 1 to 10 mm, for interiors



Interior



Sack



By hand



By machine



Metal trowel

Composition

SL 416 is a dry premix based on special hydraulic binders with rapid hydration and setting, with selected sands and special additives to improve workability and favour its self-levelling properties.

Supply

- Special sacks with protection against damp of 25 kg approx.

Use

SL 416 is used for interiors to level uneven cement-based substrates or old ceramic floors, with a thickness of application of between 1 and 10 mm, when rapid drying time is necessary to allow the floor covering to be laid quickly.

Substrate preparation

The surface of the ground or floor should be free of dust and dirt. Any traces of oil, grease, wax etc. should be removed beforehand, as well as powdery or loose parts. Highly absorbent substrates should be previously treated with our AG 15 primer diluted 1 to 8 with water. Anhydrite screeds, on the other hand, must be treated with PRIMER DG 74 primer.

Mixing

Pour and at the same time mix a 25 kg sack of SL 416 in around 6-6.3 litres of clean water and mix with a mechanical stirrer at slow speed, until obtaining a smooth and uniform mix. It is possible to mix larger quantities of SL 416 in a common mortar mixer. SL 416 can also be applied with a pump. Do not attempt to restore decreased workability by adding further water to the mix. Wait 2 minutes before application and then stir the mix. SL416 spreads easily with one coat from 1 to 10 mm thick using a metal trowel or a squeegee. Due to its excellent self-levelling qualities, SL 416 does not leave imperfections. If a second coat of SL 416 is necessary, this should be applied after no more than two hours. As the product dries quickly, wooden, ceramic floors, etc. should be laid shortly after application (around 12 hours at +20°C): in any case, the flooring should be laid only after having made sure the substrate is dry, using a calcium carbide moisture meter.

Warnings

- Do not use the product for exteriors.
- Do not use on damp substrates or surfaces affected by rising damp.
- On heated substrates allow at least one day with the heating off before applying.
- Use the product at temperatures between +5°C and +30°C.
- Do not add water to the mix during setting and do not exceed the recommended dosage.

- Apply the second coat of SL 416 before the first is completely dry.
- Do not apply directly on anhydrite substrates. These must be treated beforehand with PRIMER DG 74.
- Do not apply SL 416 with a thickness of less than 3 mm if the surface is subject to heavy traffic or a parquet floor will be laid.
- Do not lay floors (parquets, resilient floors etc.) until you have checked that the humidity is below 2% as measured with a carbonate hygrometer. For the application of wooden coverings on screeds laid on underfloor heating systems the residual humidity must be $\leq 1.7\%$, in compliance with the UNI 11371 standard.
- The residual humidity must be measured with a carbonate hygrometer when it is assumed that the screed humidity content is lower than 3%. For the measurement introduce a 50 gr sample in the vessel together with a calcium carbide vial. The reading must be made on the scale corresponding to 50 grams, or with the conversion chart supplied with the instrument, 20 minutes after the start of the test.
- For a workmanlike tile ceramic flooring on any cement-based screed applied with the "glue" method, the maximum residual humidity must be equal to 4% approx..
- For applications on old ceramic flooring, clean and scarify the substrate and remove any residues before applying the AG 15 primer diluted in water 1:8.

SL 416 must only be used in its original state, without the addition of other materials.

Storage

Store in a dry place for no longer than 12 months. Setting may slow down after the product has been stored for some time, however without the final performance being affected.

Quality

SL 416 is subjected to careful and constant testing in our laboratories. The raw materials used are carefully selected and checked.

Technical Data

Specific weight of the powder	approx. 1250 kg/m ³
Grading	< 0.6 mm
Mixing water	approx. 24%
Yield	approx. 1.6 kg/m ² per mm in thickness
Setting time at +20°C	approx. 1 hour
Can be walked on after (at +20°C)	approx. 3 hours
Workability time at 20°C	approx. 30 minutes
Density of the hardened product	approx. 1950 kg/m ³
Adhesion on cement-based substrates	> approx. 1.5 N/mm ²
Flexural strength after 24 hours	approx. 3.5 N/mm ²
Flexural strength after 7 days	approx. 6 N/mm ²
Flexural strength after 28 days	approx. 9 N/mm ²
Compressive strength after 24 hours	approx. 12 N/mm ²
Compressive strength after 7 days	approx. 22 N/mm ²
Compressive strength after 28 days	approx. 31 N/mm ²
Thermal conductivity coefficient (EN 12524)	$\lambda = 1.3 \text{ W/m K}$ tabulated value
Complies with the EN 13813 standard	CT-C30-F7

The above information refers to laboratory testing; it is possible that in practical applications on site it may differ according to the conditions in which the material is applied. In any case the user should verify that the product is suitable for the intended application, taking all responsibility for its use. Fassa reserves the right to make technical modifications without notice.