

WAKOL Z 590 Light Screed

Technical Information

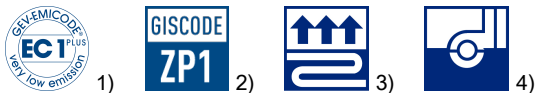
Area of application

Low-stress, cementitious lightweight screed for use in layer thicknesses of 20 - 300 mm in a system with WAKOL AR 150 Reinforcement Fabric and approved Wakol levelling compounds or WAKOL Z 515 Thin Screed for

- Levelling and filling subfloors, even in structurally problematic areas
- Installation with bonding (lightweight screed thickness at least 20 mm)
- Installation on separating layer (lightweight screed thickness at least 30 mm)

indoors.

Special properties



- Very low surface weight of 3.5 kg/m²/cm
- Suitable for walking after 12 hours
- Ready for coating after 24 hours

- 1) Based on the criteria of GEV (Association for Emission-controlled Laying Materials), classified as EMICODE EC1 PLUS: very low in emissions
- 2) Cement-based products, low chromate
- 3) Suitable for underfloor heating
- 4) Suitable for exposure to castor wheels

Technical data

Raw material base:	Polystyrene foam granulate with cementitious binder
Strength of coating:	20 - 300 mm in one step
Mixture:	approx. 4,5 - 5,0 l water + 50 l / 16 kg WAKOL Z 590 Light Screed
Processing time:	approx. 60 minutes
Suitable for walking:	approx. 12 hours
Coverable:	approx. 24 hours
Waiting time before laying:	approx. 24 hours

Storage time: 12 months; store in a cool and dry location, tightly seal any opened bags and use as soon as possible

Application and consumption⁵⁾

Levelling gauge approx. 3,2 kg/m²/cm
Smoothing device

5) Consumption is dependent on surface structure and absorbability of subfloor.

Subfloors

The corresponding standards and data sheets apply to the execution of the screed work. Before starting work, install screed edging strips (at least 8 mm thick).

When manufacturing compound screeds, the subfloor must be pretreated with WAKOL D 3004 Primer Concentrate, WAKOL D 3045 Special Primer or WAKOL Z 560 Rapid Screed mixed with WAKOL D 3004 Primer Concentrate as a bonding slurry.

For this purpose, add a partial amount of WAKOL Z 560 Rapid Screed to WAKOL D 3004 Primer Concentrate and apply to the subsurface using a brush or swab. The lightweight screed must be cast into the freshly grouted surfaces within 45 minutes. Surface areas which are already dried must be reworked.

For the use of the above-mentioned primers, the approvals according to the respective valid technical information must be observed.

When using on a separating layer, use a PE film at least 0.2 mm thick and ensure crease-free installation.

Usage

Stir WAKOL 590 Light Screed in a clean stirring vessel with approx. 4,5 - 5,0 l clear, cold tap water until free of lumps. The mixing device must not exceed 600 rpm.

The processing can also be done with normal screed mixers, compressed air mixing and conveying machines or in the forced action mixer. WAKOL Z 590 Lightweight Screed can be applied up to 300 mm in one step. To do this, install lightweight screed at the correct height, e.g. using levelling gauges, and then smooth with a screed blade. Do not allow the screed between the layers to dry. Alternatively, the subfloor must be grouted as described above.

Protect the setting lightweight screed against direct sunlight and draughts.

After 24 hours of drying time, lay WAKOL AR 150 Reinforcement Fabric and remove with WAKOL Z 645 Filling Compound, dust-reduced or WAKOL Z 640 Filling Compound, mixed with WAKOL D 3060 Plastification Additive.

After drying (see Technical Information WAKOL D 3060 Plastification Additive) level the surface with WAKOL Z 610 Levelling Compound, dust-reduced, WAKOL Z 615 Levelling Compound, dust-reduced, WAKOL Z 625 Levelling Compound, WAKOL Z 630 Levelling Compound or WAKOL Z 515 Thin Screed in a minimum layer thickness of 10 mm,

consumption approx. 15 - 18 kg/m². The maximum layer thickness is 15 mm, for drying times see Technical Information.

Instead of cementitious levelling compounds, the surface can also be levelled with WAKOL A 830 Levelling Compound in a minimum layer thickness of 10 mm, but max. 20 mm. Ensure sufficient drying time, see Technical Information for details.

Alternatively, WAKOL AR 150 Reinforcement Fabric can be levelled with WAKOL Z 515 Thin Screed without the use of plasticised filling compound. An additional consumption of 5 kg/m² must be taken into account.

Important

Processing not below floor temperature of +15 °C and room temperature of +18 °C, as well as room humidity preferably between 40 % and 65 %, maximum 75 %. All information is based on approx. 20 °C and 50 % relative air humidity.

If the covering is not laid on the levelled surface within 5 days, the surface must be covered with PE film (construction foil 0.2 mm) or PE-coated paper ("milk carton paper") after 24 hours at the earliest, but within 72 hours.

If a moisture measurement is required, then this is only possible with the CM device. For this purpose, 10 g of lightweight screed is weighed out. The floor is ready for covering when the reading pressure no longer exceeds 1.2 bar.

We guarantee the uniform high quality of our products. All data is based on tests and many years of practical experience and refers to standardised conditions. The variety of materials used and the different construction site conditions, which lie beyond our control, preclude any claims based on this data. We therefore recommend making sufficient trials. Accompanying flooring manufacturer's instructions and the current national standards must be observed. We gladly provide technical advice.

The product data sheets can be found in their latest version at www.wakol.com.

This Technical Information of 07.12.2023 supersedes all previous versions.