

level 3

level 3 is a fiber-reinforced self-leveling mortar for leveling and regularizing substrates for all kinds of floor tiles. 3 to 30 mm thickness. Specially recommended for laying rectified ceramic floor tiles.

level 3 is formulated from special fast curing and hydrating cements, selected grain size aggregates, resins and special additives. Suitable for substrates up to 30 mm thick in one application. It features good workability, fast-setting times, and a high mechanical performance. Absolutely even, level surfaces can be achieved so that tiles can then be

laid swiftly and faultlessly using cement-based adhesives

Recommended use:

- Indoor large format ceramic floor tile coverings.
- Indoor rectified floor tile coverings.
- Indoor ceramic floor tiles with minimum joint.
- Ceramic floor tiles with radiant heating.
- Laminate floating floors, synthetic floors and carpet.
- Do not use in outdoor floors.

Materials

- Large format ceramics.
- Porcelain tiles with a water absorption < 0.5% as per EN-ISO 10545-3.
- Natural stone and marble not prone to staining.
- Laminate floors and parquet.

Substrates

- Concrete or mortar substrates.
- Anhydrite floors.
- Terrazzo, stone or ceramic floors.
- Wooden and chipboard floors, plywood floors or parquet.

Check with the **Technical Department at butech** for the primer to be used in each case.

Characteristics

- Fiber-reinforced self-leveling mortar.
- Fast hardening. Ready for traffic in 4-5 hours.
- Excellent adherence. Flexible.
- Application thickness between 3 and 30 mm.
- Easy application with a straight edge trowel or scraper. Pumpable.
- Indoor use.
- Mixing water: 17-18%: 4.25 - 4.5 l / 25 kg bag

Certifications/Standards:

En 13813

CT-C25-F5

Instructions for use

Preparing the substrate.

The substrate or laying base must be dimensionally stable and not deformable, and with no risk of cracking and shrinking because of mortar hardening. In case of substrates more than 40 mm thick and for reducing tensions due to structural movements, we recommend to decouple with a polyethylene sheet and a perimetral joint around the flooring. Otherwise, we recommend to make a fully bonded floor with mortar screed.

Cement-based substrates must have the following features:

- Residual moisture lower than 3%.
- Free of dust, loose particles, paint, grease or other substance which might compromise adherence.
- Clean of dust, grease or any other substance which might compromise the effectiveness of the bonding material.
- Compact, with no cracks, fully hardened.

In case of presenting any of the above defects, these must be fully amended before proceeding to laying the tiles.

In absorbing or not consistent substrates, we recommend to apply a primer for reinforcing the substrate and reducing water absorption. We recommend the use of **uniprim**, a synthetic resin primer is recommended for absorbent substrates and **superprim** is recommended for non-absorbent substrates.

Preparing the mortar.

level 3 is a self-leveling cement-based agent which is mixed with clean water to form a mortar. Below are instructions for preparing this adhesive:

- Use clean tools and containers.
- Mix with clean water in the following ratio: 17-18%: 4.25 - 4.5 l of water per 25 kg bag.
- Pour the water in the container first, and then add the mortar slowly.
- Mix with an electric mortar mixer at low speed (500 rpm) until you get a fluid, even and lumpless mass.
- Leave to rest for 5-10 minutes.
- Mix again and apply.

Applying the mortar.

We recommend you follow these instructions:

- Lay perimetral joints where the floor touches walls and other structural elements. We recommend to use a polyethylene or EPS band.
- Check that the substrate meets all the requirements for the application of the self-leveling mortar.
- Check that the primer applied previously is ready to receive the self-leveling mortar. Follow the instructions of the primer supplier.
- Mark in the substrate the final height of the self-leveling mortar layer you wish to apply. Apply level marks every 50 cm along the surface to be covered with the self-leveling mortar.
- Pour the self-leveling mortar and spread over the substrate with a leveling metal trowel or with a rubber squeegee.
- While the mortar is still wet, stir gently to take out any bubbles. We recommend to use a spike roller designed for that purpose.
- The mortar layer thickness will be between 3 and 30 mm.
- Once laid, rinse the tool generously with water before it hardens.

Putting into service.

Leave the mortar to harden for a minimum 4-5 hours before walking on it. Depending on the environment conditions and the thickness, wait 1 to 3 days before laying the tiles.

In case of installations on radiant heating floors, observe the regulations in force.

Coverage

1.4 kg of **level 3** per m² and mm of thickness.

- 3 mm thickness 4.20 kg/m²
- 5 mm thickness 7.00 kg/m²
- 10 mm thickness 14.0 kg/m²
- 15 mm thickness 21.0 kg/m²
- 20 mm thickness 28.0 kg/m²
- 25 mm thickness 35.0 kg/m²
- 30 mm thickness 42.0 kg/m²

Preservation

12 months in its original package and protected from moisture and the elements. Store in a dry location, covered and protected from direct sunlight.

Health and safety

- Contains hydraulic binders which in contact with sweat or other body fluids can produce a slightly irritant alkaline reaction. MSDS available for professionals upon request.

Data Sheet Conditions

- The technical information included in this data sheet has been gathered from tests at certified laboratories and in the conditions stated by the relevant standards.
- For further information about this product, refer to the **Technical Department at butech**.
- This data sheet does not describe a finished product; it is a fixing material which, together with other products and materials, determines a ceramic tiles lying system. Instructions in this technical sheet have been written based on our experience and technical expertise, but they have to be considered as general recommendations, which together with those for the rest of the products in the system, help the tile-laying professionals in the performance of their job.
- As it is not possible to know all the features and conditions of a building job, professionals must consider it and, if deemed appropriate, perform a previous test to confirm whether the product is suitable for the job.
- The technical sheet cannot reflect all the applications and conditions entailed in the use of a material, so, in situations not described in this sheet, we recommend to perform a previous test and refer to our technical department.
- This sheet has been updated in January, 2013.

Technical Data

Appearance	Grey powder
Dry mortar specific weight	1.3 g/cm ³
Dangerousness	None (refer to MSDS)
Flammability	No
Preservation time	12 months in a dry place

Water proportion	17%-18%
Layer thickness	3-30 mm
Mix specific weight	2.1 g/cm ³
Mix pH	12 approx.
Application temperature	+5° C and +30° C
Open time	30-40 min.
Adjusting time	50-70 min.
Walkability	4-5 hours
Waiting time before laying tiles	1-3 days

Compression resistance	
After 1 day	15 N/mm ²
After 3 days	20 N/mm ²
After 7 days	25 N/mm ²
After 28 days	28 N/mm ²

Flexural strength	
After 1 days	3 N/mm ²
After 3 days	4 N/mm ²
After 7 days	4.5 N/mm ²
After 28 days	5.5 N/mm ²

Data obtained under laboratory conditions, at 23° C and 50% relative moisture.

References

KEA	SAP	Product description	Packaging	Palletising
B15901004	100104577	level 3	25 kg bag	1000 kg/pallet

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