

SA 50 Plus

Premium cementitious levelling compound – our classic with unrivalled value for money

Blue Angel (RAL-UZ 113) · Very low emission · GISCODE ZP 1 – chromate-reduced per TRGS 613 · C25-F5 per DIN EN 13 813

Characteristics

- Very good flow properties
- Low and easy adhesive application
- Awarded the Blue Angel eco-label per RAL-UZ 113, very low emissions
- Hydraulic setting – rapidly reaches very high strength values
- No maturing time required – ideal for fast work
- Still easy to sand after 24 hours
- Excellent handling: spreads easily ahead of the trowel, self-levels, low tension
- Long open time combined with fast drying
- Best price/performance ratio for economical work
- GISCODE ZP 1 – chromate-reduced per TRGS 613
- Suitable for flatness classes E1 – E4

Application

- Filling, smoothing, levelling: cement and calcium sulfate screeds (DIN 18354 / 18560), mastic asphalt (IC 10 per DIN EN 13813, for thin-layer smoothing 2–3 mm), concrete (residual moisture max. 2.5 wt %), load-bearing ceramic tiles, stone-wood, wood and magnesite screeds, gypsum fibre and fibre cement boards, load-bearing existing substrates and waterproof adhesive residues, indoors
- AFB (rolled asphalt)
- For filling holes and similar work we recommend FÜ 90 / GP 10 S
- Suitable for use with all floor types, including parquet
- Ideal for design and rubber floor coverings
- Suitable for pallet trucks, castor chairs and underfloor heating; can be applied with roller compaction; can be machine-pumped
- Time-saving on large surfaces
- Contributes to a healthy indoor climate

Technical data

Consumption	approx. 1.5 kg/m ² per mm
Mixing ratio	Smooth, self-levelling mortar: 6.5 l water + 25 kg SA 50 Extended mortar: 6 l water + 25 kg SA 50 + 15 kg quartz sand 0.7–1.2 mm
Layer thickness	1 to 10 mm; extended up to 20 mm
Open / pot life	approx. 30 to 40 minutes at +18 °C
Processing temperature	Optimum: +10 °C to +23 °C (substrate temperature min. +15 °C); relative humidity preferably between 45 % and 65 %, max. 75 %. High temperatures accelerate, low temperatures slow down the setting process.
Walkable	after 1 to 2 hours, depending on room conditions

Ready for installation	after approx. 24 hours (at +18 °C / 50 % r.h.); drying time will be longer at higher humidity
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Substrate preparation

The substrate must be compression- and tension-resistant, free of cracks, load-bearing, permanently dry, and free of dirt and separating agents. It must comply with VOB DIN 18 365 and the applicable standards and guidelines. The substrate must have sufficient strength to absorb the stresses and dimensional changes that may arise from installation materials and floor coverings. A primer is required to prevent insufficient strength and cracking. Loose particles and slurry layers must be removed by shot-blasting or milling. To prevent sound bridges caused by direct contact with vertical building elements, edge insulation strips must be installed. Expansion joints are matched with expansion profiles. All defects must be reported.

Processing recommendation

The powder is mixed into cold, clean water until a homogeneous, lump-free mixture is obtained. Excessive wetting leads to sedimentation and unstable surfaces. A mixer running at approximately 600 rpm is recommended. The extender is added last. The levelling compound is then poured out and distributed with a smoothing trowel, screed float or notched trowel (560 mm). Using a trowel makes it easier to obtain flat surfaces. We recommend subsequent de-aeration with a spiked roller and smoothing of trowel marks. For levelling work over large surfaces the compound can be efficiently processed with a mortar mixer and pump. If the system is left standing for more than 30 minutes, the hoses must be cleaned. Avoid draughts and intense sunlight during the setting process. Excessively fast loss of moisture leads to "burning"; the surface becomes friable and shrinkage cracks may appear. If the levelling compound is sanded after drying, the surface must be vacuumed before further bonding.

Recommended primers

Substrate	Primer
Cement screeds, concrete, fibre cement boards	Unigrund Express, Micro-Grund, 2K DP-Grund, Super Grip Q, 2K Grundierspachtel, Tensit, EP-BA 500 (sanded)*, PS-Grund 300 ¹⁾
Calcium sulfate screeds, gypsum fibre boards, stone-wood, wood and magnesite screeds	Unigrund Express, Micro-Grund, EP-BA 500 (sanded)*, Super Grip Q, PS-Grund 300 ¹⁾
Mastic asphalt screeds (un-sanded), ceramic tiles	Unigrund Express, 2K DP-Grund, 2K Grundierspachtel, Super Grip Q, EP-BA 500 (sanded)*, PS-Grund 300 ¹⁾
Moisture-resistant, load-bearing adhesive residues	Unigrund Express, 2K DP-Grund, Micro-Grund, Super Grip Q, Tensit, 2K Grundierspachtel, EP-BA 500 (sanded)*, PS-Grund 300 ¹⁾

Minimum layer thicknesses

- Non-absorbent or moisture-sensitive surfaces: 3 mm
- New calcium sulfate screeds: 1–2 mm (2 mm under rubber)
- Existing substrates: min. 2 mm (3 mm under rubber)

Suitable for castor chairs per DIN EN 12529: 1.0 mm; on dense substrates (e.g. mastic asphalt): 1.5 mm; under dense coverings: 2.0 mm. Suitable for all substrate quality requirements per ZVPF technical sheet 02.

¹⁾ Sanded with the prescribed quartz sand or alternatively with Grip Q.

* Smooth surfaces should be sanded with quartz sand of 0.2–0.6 mm grain; rough surfaces with 0.7–1.2 mm.

Storage

Store in a cool, dry place. Shelf life: 6 months. Reseal opened containers airtight immediately. Date of manufacture (month and year): see batch stamp.

Disposal

Only fully emptied, free-flowing paper containers may be recycled. Collect product residues, mix with water and allow to harden. Once hardened, residues can be disposed of as household waste. Commercial disposal: EWC code 170904 (construction and demolition waste).

Packaging sizes

25 kg bag

Notes

Composition: cement combination with redispersible plastic powder, additives and mineral fillers. Reacts alkaline with moisture, pH approx. 11. Prolonged skin contact increases the risk of serious skin damage. Keep out of reach of children, whether as freshly mixed adhesive or installation material, or in original packaging. Use only in well-ventilated areas. Do not eat, drink or smoke while in use. Do not allow to enter drains, watercourses or soil. Wear protective gloves / protective clothing / eye protection. Avoid contact with eyes, skin or clothing. After use, wash tools thoroughly with soap and water. In case of skin contact: wash with plenty of soap and water. In case of eye contact: rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. If eye irritation persists: seek medical advice / attention.

General / disclaimer

The above information, in particular the suggestions for processing and using our products, is based on our knowledge and experience. Due to varying materials and working conditions beyond our control, we recommend carrying out sufficient in-house tests in every case – particularly when used in combination with third-party products – to ensure the suitability of our products for the intended processes and applications. No liability can be derived from this information or verbal advice unless we are proven to have acted with intent or gross negligence. Please refer to the Technical Information, the Safety Data Sheet and our Terms of Delivery and Payment. Floor manufacturer instructions take precedence. Publication of this Technical Data Sheet renders all previous editions invalid.

SA 50 Plus – English edition based on the manufacturer's 02/2025 data sheet.