

# FÜ 90

*Our stable cement-based levelling and filling compound*

Blue Angel (RAL-UZ 113) · GISCODE ZP1 – chromate-reduced per TRGS 613 · EN 13813 CT–C40–F10

## Characteristics

- Very fast drying – significant time savings on site
- Very fine-grained, can be feathered to zero
- First repair mortar to carry the Blue Angel eco-label per RAL-UZ 113, very low emissions
- Very easy to work for super-smooth results
- Still easy to sand after 24 hours
- Exceptionally high strength values with low internal stress
- Can be extended with quartz sand without loss of strength
- GISCODE ZP1 – chromate-reduced per TRGS 613

## Application

- Highly versatile, suitable for walls and floors
- Filling and modelling on cement and calcium sulfate screeds (DIN 18354/18560), mastic asphalt (IC 10 per DIN EN 13813; max. 3 mm for thin levelling), concrete (residual moisture max. 2.5 wt %), load-bearing ceramic tiles, stone-wood, wood and magnesite screeds, gypsum fibre and fibre cement boards, wooden subfloors, load-bearing water-resistant adhesive residues – for indoor use
- Suitable for pallet trucks, castor chairs and underfloor heating
- Can be finished with a felt float

## Technical data

<b>Consumption</b>	approx. 1.6 kg/m <sup>2</sup> /mm
<b>Mixing ratio</b>	5.5 l water + 25 kg FÜ 90 (with filler); extended mortar: 5 l water + 25 kg FÜ 90 + 15 kg quartz sand 0.7–1.2 mm
<b>Layer thickness</b>	up to 10 mm, extended up to 30 mm
<b>Open time</b>	approx. 15 minutes at +18 °C
<b>Processing temperature</b>	+10 °C to +23 °C (substrate min. +15 °C); relative humidity 45–65 %, max. 75 %. High temperatures accelerate, low temperatures slow down setting.
<b>Foot traffic</b>	after 20–30 minutes (depending on room climate)
<b>Ready for installation</b>	after approx. 60 minutes (at +18 °C / 50 % r.h.); drying takes longer at higher humidity
<b>Classification</b>	EN 13813 CT–C40–F10 · Fire behaviour A1fl · Compressive strength class C40 · Flexural strength class F7

## 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 coverings. A suitable 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 from direct contact with vertical building elements, perimeter strips must be installed. Expansion joints must be carried through with matching joint profiles. All defects must be reported.

## Processing recommendation

Mix the powder into cool, clean water until a homogeneous, lump-free slurry forms. Over-watering causes sedimentation and unstable surfaces. A mixer running at approx. 600 rpm is recommended. Quartz sand (when used as an extender) is added last. Apply and smooth with a trowel. Avoid draughts and direct sunlight during the setting process. Loss of moisture that is too rapid leads to dusty surfaces and shrinkage cracks. If the compound is sanded after drying, vacuum thoroughly before any subsequent bonding work.

## Primers

- Cement screeds, concrete, fibre cement boards: Unigrund Express, Micro-Grund, 2K DP-Grund, 2K Grundierspachtel, Tensit, EP-BA 500 (sanded), PS-Grund 3001
- Calcium sulfate screeds, gypsum fibre boards, stone-wood, wood and magnesite screeds: Unigrund Express, Micro-Grund, EP-BA 500 (sanded), PS-Grund 3001
- Mastic asphalt screeds, ceramic tiles, wood planks, chipboard and OSB panels: Unigrund Express, 2K DP-Grund, 2K Grundierspachtel, PS-Grund 3001, EP-BA 500 (sanded)
- Water-resistant load-bearing adhesive residues: Unigrund Express, 2K DP-Grund, Micro-Grund, 2K Grundierspachtel, Tensit, EP-BA 500 (sanded), PS-Grund 3001

## Minimum layer thickness

Suitability for castor chairs per DIN EN 12529: 1.0 mm; on dense substrates (e.g. mastic asphalt): 1.5 mm; on dense coverings: 2.0 mm. Max. 3 mm on mastic asphalt. Suitable for all substrate quality requirements per ZVPF Technical Information Sheet 02.

## Storage

Store in a cool, dry place. Shelf life 6 months. Reseal opened bags immediately. Production date (month and year): see stamp.

## Disposal

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

## Packaging sizes

25 kg bag

## Notes

Composition: combination of cement with re-dispersible polymer 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 fresh adhesive or laying material, or in its original packaging. Use only in well-ventilated areas. Do not eat, drink or smoke while using this product. 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 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.

FÜ 90 – English edition based on the manufacturer's 01/2025 data sheet.