

weber.fug 873

High-strength grout

High-strength, cement-based grout for joint width 3 - 15 mm in areas subject to high loads (CG2 WA)

Fields of application

For the grouting of wall and floor ceramic tiles, mosaic, stoneware brick slips, porcelain stoneware, stoneware, earthenware, split tiles and natural stone slabs which are not sensitive to moisture (discoloration).

For use on heated floors in living rooms and domestic bathrooms, on balconies/terraces, in swimming pools, pool surrounds, shower facilities, workshops, cold storage rooms, washing facilities, commercial kitchens, storage and sales rooms, industrial and commercial premises.

For use indoors and outdoors.

Description

weber.fug 873 is a high-strength grout of class **CG2 WA** ("cement-based grout with improved water absorption and abrasion resistance") according to EN 13888.

Composition

High-grade cement, selected fillers

Main features

- **EMICODE EC 1 PLUS:** very low emission of volatile substances
- **class CG 2 WA:** CG: cement-based grout – 2 WA: low water absorption (W) and high abrasion resistance (A)
- for joint width from 3 mm up 15 mm
- one-component
- high mechanical strength and abrasion-resistance
- fulfills the KSW recommendations for swimming pools (Germany)
- good resistance against chemicals with a pH value > 4.5
- increased resistance against acid cleaning agents

- resistant to high pressure cleaners up to +150°C and 100 bar
- frost-resistant
- for commercial and industrial premises
- for walls and floors
- for use indoors and outdoors

Technical values

Application temperature:	+5°C - +30°C
Pot life:	approx. 30 minutes
Open to foot traffic:	approx. 4 hours
Open to mechanical loads:	approx. 3 days
Open to full service:	approx. 7 days
Compressive strength after dry storage/freeze thaw cycling:	≥ 15 N/mm ²
Pull-off strength after dry storage/freeze thaw cycling:	≥ 2.5 N/mm ²
Abrasion resistance:	≤ 1000 mm ³
Shrinkage:	≤ 3 mm/m
Water absorption after 30 minutes:	≤ 2 g
Water absorption after 240 minutes:	≤ 5 g
Temperature resistance:	-20°C - +150°C
Chromate content:	low content (EC regulation 1907/2006)

Quality control

weber.fug 873 is subject to a regular quality control by self-monitoring according to EN 13888.

General notes

- **Limits of use:** do not use **weber.fug 873** for terracotta, glass mosaic, glass tiles and moisture (discoloration)-sensitive natural stones; in these cases, use a specific **Weber** grout, depending on material and joint width. Request technical advice.
- All characteristics mentioned in this data sheet are based on a temperature of +23°C without draught and a relative humidity rate of 50%.

- High temperatures and low humidity rates accelerate, low temperatures and high humidity rates delay the setting process.
- Substrates with different porosity, type of material to be laid and joint sides can lead to colour differences once the grout has completely set.
- Mortar residues can accumulate on tiles with micro-porous (for ex. Lappato), porous, textured (rough) or matt glazed surfaces; if in doubt, carry out a test on a trial area to ascertain if discoloration is likely. If necessary, pre-wet the surfaces in order to prevent discoloration.
- For grouting natural stone slabs (not sensitive to moisture and discoloration) follow the supplier's recommendations; if in doubt, carry out a test on a trial area.
- Corner joints, connection joints to installed components and pipe ducts must be closed with an elastomeric silicone-based joint sealant, like **weber.fug 880**, **881** or **883** in accordance with the job site requirements.
- Type and appearance of material to be laid might have an influence on the final colouring of the grout; if necessary, carry out a test on a trial area.
- Do not use material that has already stiffened.

Special notes

- Only use cleaning agents for floor care after approx. 7 days. Follow the supplier's recommendations relative to their dilution rate.
- Use only cleaners approved for ceramic tiles in swimming pools.
- Observe the chemical resistance chart of the product.
- As a rule, pre-wet the joints well before using cleaners.
- Do not use highly-acid cleaning agents or high-pressure/steam jet cleaners on the grouted surfaces.
- Wait for 14 days before using conventional household cleaners.
- In outdoor areas discoloration, washout and efflorescence due to environmental factors cannot be ruled out.
- In case of use in areas permanently under water, a corrosion on the cement-based grout should be anticipated if the water is too soft. Therefore, the water must contain a minimum content of calcium carbonate per liter. Comply with the national standards and/or guidelines relating to the grade of local water hardness (for ex. hardness scale in Germany > 5°); if not issued, request technical advice.

Substrate preparation

- The joint network must be dry, free of tile adhesive residues, and all adhesion-impairing particles.
- If necessary, scrape out the joints before the tile adhesive hardens, so that a continuous and uniform joint cross-section is achieved throughout.
- Allow the mortar to dry out and harden prior to grouting; otherwise colour differences may occur in the joints after complete hardening.
- Pre-wet highly and differently absorbent materials using a sponge and clean water in order to achieve a more uniform drying out and setting of the grout.
- Do not grout areas with a varying surface temperature, e.g. due to warm water heating pipes or sunlight.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- Pour clean water in a suitable mixing vessel and add the powder. Mix the bag content (25 kg) with approx. 5.0 - 5.5 liters of water, using an electric drill and an appropriate stirrer (for ex. **weber.sys Rührpaddel** no. 2 or no. 8) until lump-free.
- If required, stir up the mortar again with a trowel or a slow-speed drill without adding more water.
- All mixtures must always be processed with the same specified amount of water in order to avoid colour differences.

Application

- Work **weber.fug 873** into the joints flush and deep with a hard rubber float **weber.sys Epoxidharzfugbrett** on walls and floors.
- After a few minutes apply a very small quantity of the grout. Smooth down the surface with soft diagonal movements and remove excess mortar.
- Check with finger whether the mortar has stiffened and thus is ready for washing. For an easier cleaning pre-wet the stiffened grout with some water. Afterwards the mortar is “compacted” with a latex sponge or a felt float; subsequently rinse the surface with clean water.
- In case of low-porosity materials, like porcelain stoneware, a longer waiting time prior to cleaning is necessary.
- After the mortar has started to set, wipe away any eventual dried mortar haze with a slightly damp sponge in a new washing operation.
- The joints should be kept sufficiently moist in unfavourable climatic conditions, so as to avoid “burning” of the joint surface.

Practical information

Colour:

medium grey

Water demand:

approx. 5.0 - 5.5 liters / 25 kg

Tools:

Electric drill + stirrer **weber.sys Rührpaddel** no. 2 or no. 8, hard rubber float **weber.sys Epoxidharzfugbrett**, latex sponge or felt float, sponge

Storage:

The product can be stored at least 9 months in its original unopened packaging, if kept dry and protected from moisture.

Consumption

Split tiles 24 x 11.5 cm:	approx. 2.1 kg/m ²
Tiles 20 x 20 cm:	approx. 1.5 kg/m ²
Small mosaic:	approx. 1.5 kg/m ²

Packagings

Type	Sales unit	Number / euro-pallet
Paper bag	25 kg	42 bags

The information in this technical data sheet is based on our current knowledge and experience at the time of printing. However, they do not guarantee in the legal sense.