

weber.fug 870

Narrow grout

Coloured narrow-joint grout for joint width 1 - 6 mm (CG1)

Fields of application

As multi-use grout for walls and floors in domestic living rooms, bathrooms and showers, wet-duty areas and areas permanently under water (for ex. fountains).

For grouting mosaic, stoneware and earthenware.

weber.fug 870 is characterized by its smooth and easy workability, whereby the number of different joint colours offers gives the tile surface a perfect overall appearance.

For use indoors and outdoors.

Description

weber.fug 870 is a narrow-joint grout of **class CG 1** ("cement-based grout with standard water absorption and abrasion resistance") according to EN 13888.

Composition

High-quality cement, selected fillers, light-fast pigments

Main features

- **EMICODE EC 1 PLUS**: very low emission of volatile substances
- **class CG 1**: CG: cement-based grout – 1: all characteristics comply with the minimum requirements
- for joint width up to 6 mm
- frost-resistant
- light-fast colours
- high filling grade
- strong adhesion to joint sides
- for walls and floors
- for use indoors and outdoors

Technical values

Application temperature:	+5°C - +30°C
Pot life:	approx. 2 hours
Open to foot traffic:	approx. 24 hours
Open to mechanical loads:	approx. 3 days
Compressive strength after dry storage/ frost thaw cycling:	$\geq 15 \text{ N/mm}^2$
Pull-off strength after dry storage/ freeze thaw cycling:	$\geq 2.5 \text{ N/mm}^2$
Abrasion resistance:	$\leq 2000 \text{ mm}^3$
Shrinkage:	$\leq 3 \text{ mm/m}$
Water absorption after 30 minutes:	$\leq 5 \text{ g}$
Water absorption after 240 minutes:	$\leq 10 \text{ g}$
Temperature resistance:	-20°C - +70°C
Chromate content:	low content (EC regulation 1907/2006)

Quality control

weber.fug 870 is subject to a regular quality control by self-monitoring according to EN 13888.

General information

- **Limits of use:** do not use **weber.fug 870** in drinking water tanks and in swimming pools; in these cases, use the high-strength cement-based grout (CG2 WA) **weber.fug 873** or the epoxy resin binder mixed with sand **weber.fug 878**.
- Do not use for grouting natural stones, resin-bound slabs ("engineered stones") and materials with sensitive surface; in these cases, use the ceramic and natural stone grout with crystal effect **weber.fug 875 F**.
- 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 materials 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, 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.
- 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 materials to be laid might have an influence on the final colouring of the grout; if necessary, carry out a test on a trial area.
- Due to several factors related to substrate and atmosphere we cannot give a warranty for a uniform colour throughout all joints; if in doubt, carry out a test on trial area.
- Do not use materials that has already stiffened.

Special notes

- 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 and substances.
- 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 different 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 (5 kg) with approx. 1.2 - 1.4 liter of water, using an electric drill and an appropriate stirrer (for ex. weber.sys Rührpaddel no. 1 or no. 2, depending on packaging size) 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.
- Do not mix more grout than can be applied within the pot life of approx. 2 hours.

Application

- Work **weber.fug 870** into the joints flush and deep with a hard rubber float on floors and walls, for ex. **weber.sys Epoxidharzfugbrett**. Neither use a rubber squeegee, nor a joint iron.
- 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 glass 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

Colours:

Bahama beige, dark grey, edelweiss, light grey, manhattan, medium grey, pergamon/jasmine, silver grey

Water demand:

approx. 1.2 liter - 1.4 liter / 5 kg (depending on colour)

Tools:

Electric drill + stirrer weber.sys Rührpaddel no. 1 or no. 2, hard rubber float **weber.sys Epoxidharzfugbrett**, felt float, latex sponge, sponge

Technical Data Sheet



Storage:

The product can be stored at least 12 months (paper bag) and at least 15 months (plastified bag) in its original unopened packaging, if kept dry and protected from moisture.

Consumption

Tiles 15 x 15 cm:	approx. 0.5 kg/m ²
Tiles 15 x 20 cm:	approx. 0.4 kg/m ²
Tiles 10 x 10 cm:	approx. 0.6 kg/m ²
Tiles 30 x 40 cm:	approx. 0.3 kg/m ²
Tiles 30 x 60 cm:	approx. 0.25 kg/m ²

Packagings

Type	Sales unit	Number / euro- pallet	Remarks
Paper bag	25 kg	42 bags	only edelweiss, manhattan, silver grey,
Plastified bag	5 kg	192 bags	4 bags in shrink foil

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.