

weber.fug 871

Trass grout for natural stones

Trass-bearing grout for joint width 3 - 40 mm (CG1) and bedding mortar up to 30 mm for polygonal slabs and cement tiles

Fields of application

For a problem-free and reliable grouting of moisture (discoloration)-insensitive natural stone slabs, concrete stone slabs (for ex. terrazzo) and also cement-based tiles.

Its main use is the grouting of wide joints between polygonal slabs of porphyry, granite, basalt and sandstones.

It fulfills the optic requirements whenever grouting pathways, terraces and surfaces with light or medium traffic.

Furthermore, it can be used as bedding mortar in the thick-bed method (< 30 mm) for laying moisture (discoloration)-insensitive natural stones and paving stones.

For use indoors and outdoors.

Description

weber.fug 871 is a grout of **class CG 1** ("cement-based grout with normal water absorption and abrasion resistance") according to EN 13888 and also a bedding mortar.

Composition

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

Main features

- **EMICODE EC 1:** very low emission of volatile substances
- **class CG 1:** CG: cement-based grout – 1: all characteristics comply with the minimum requirements
- only for floors
- for polygonal slabs, natural stone slabs and paving stones insensitive to moisture (discoloration), concrete stone slabs and cement-based tiles
- for joint width from 3 mm up to 40 mm
- can also be used as bedding mortar up to 30 mm

Technical Data Sheet



- contains trass
- slurry-like (brush) consistency
- easy application
- frost-resistant
- 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/ freeze 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:	$\leq 10 \text{ g}$
Compressive strength as laying mortar:	$> 10 \text{ N/mm}^2$
Strength class as laying mortar:	M10 (EN 998-2)
Temperature resistance:	-20°C - +70°C
Chromate content:	low content (EC regulation 1907/2006)

Quality control

weber.fug 871 is subject to a regular quality control by self-monitoring.

General notes

- 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 when the grout has completely set
- Mortar residues can accumulate on tiles 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.
- 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

- 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.
- The setting time will be delayed in case of laying dense material materials on non-porous substrates.

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 must be sufficiently solid, load-bearing, clean, dry, dimensionally stable and free from all adhesion-impairing substances.
- Concrete substrates must be free of cement laitance.
- Completely remove oil, grease, wax and care product residues.
- Pre-wet the substrate (concrete or cement screed) prior to application of the bonding layer until dull-moist.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Application as grout

- Pour clean water in a suitable mixing vessel and add the powder. Mix the bag content (25 kg) with approx. 4.5 – 5.5 liters of water, using an electric drill and an appropriate stirrer (for ex. **weber.sys Rührpaddel** no. 2) until lump-free.
- If required, stir the mortar up 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.
- Work the grout into the joints flush and deep with a rubber squeegee (floors) or a hard rubber float (walls), for ex. **weber.sys Epoxidharzfugbrett**.
- After a few minutes apply a very small quantity of the grout. Smooth down the surface with soft diagonal movements and remove excess material.
- 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 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.

Application as bedding mortar

- Mix with clean water according to the desired consistency, until lump-free. Use a force-action mixer or a double helix agitator
- Mix the trass bonding layer **weber.xerm 867** in a slurry-like consistency and apply full-surface on the substrate with a broom.
- Lay **weber.fug 871** with a flat trowel in a thickness of max. 30 mm onto the fresh bonding layer and level the mortar with levelling beams.
- Depending on the slab size apply **weber.xerm 867** either on their backside or directly on the thick-bed trass mortar **weber.xerm 868**.
- Whenever a bedding mortar in a thickness of 30 - 50 mm is required, use the thick-bed trass mortar **weber.xerm 868**.
- Large-size slabs must be adjusted on the mortar surface with levelling aids, put in the right height and levelled with a rubber mallet.
- Remove mortar residues with a wet sponge.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed mechanically.

Practical information

Colour:
cement grey

Water demand:
as grout: approx. 4.5 - 5.5 liters / 25 kg

Tools:

As grout: electric drill + stirrer **weber.sys Rührpaddel** no. 2, rubber squeegee, hard rubber float weber.sys Epoxidharzfugbrett, latex sponge or sponge float, sponge

As bedding mortar: force-action mixer or double helix agitator, broom, flat trowel, levelling beams, rubber mallet, sponge

Storage:

The product can be stored at least 12 months in its original unopened packaging, if kept dry and protected from moisture.

Technical Data Sheet



Consumption

Cement tiles 20 x 20 cm:	approx. 0.7 kg/m ²
Polygonal slabs depending on size and thickness:	approx. 2.0 - 4.0 kg/m ²
Bedding mortar per cm layer thickness:	approx. 17.0 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.