

### GF BIO

## CG2WA cement grouting material with biocides



Flexible, highly hydrophobic, fast-setting non-absorbent grouting material with the "Dry-effect" function, anti-fungal and algal properties, intended for all types of wall and floor tiles. Due to its composition, it suppresses the appearance of efflorescence.

#### DECLARATION:

Improved cement grouting mortar with additional characteristics, reduced water absorption, and high abrasion resistance, type/class CG2WA according to EN 13888.

#### APPLICATION:

Easily processable grouting material with an ideally smooth surface, for the joint width of 2-20 mm in internal and external environments. Hydrophobic additives ensures water repellency of surfaces, a so-called "Dry-effect", which eliminates dirt sedimentation in pores, and significantly increases the hygienic properties of ceramic surfaces!

The content of biocides ensures high resistance to fungi, bacteria, and algae.

Due to rapid hardening of the grouting material, the final walking surface is after approx. 4 hours, and the surface may be fully loaded after 3 hours.

The composition of the grouting material suppresses the appearance of primary and secondary efflorescence.

This product is suitable for wall and floor tiles (including natural stone) in kitchens, and other hygienically demanding areas (restaurants, shops, etc.).

It is also ideal for areas where dimensional changes occur due to excessive heat stress (such as heated floors, balconies, terraces, etc.)

This product is part of the RAKO SYSTEM system solution – BATHROOMS.

It is also intended for the grouting of SDI boards, using the RAKO SYSTEM certified system solution – SOUNDPROOF CERAMIC FLOORS.

This product is not suitable for expansion joints and at places where increased chemical resistance is required.

#### COLOUR SHADES:

12 colours according to the manufacturer's colour chart.

#### COMPOSITION:

Mineral fillers, white cement, redispersible polymer, biocides, and other additives improving processing and end-use properties of mortar.

#### TECHNICAL PARAMETERS:

MANDATORY				
Bending strength: - after storage in a dry state - after exposure to freeze cycles	min. 2.5 MPa	High abrasion resistance (A)	max. 1000 mm <sup>3</sup>	
		Shrinkage	max. 3 mm/m	
Compressive strength: - after storage in a dry state - after exposure to freeze cycles	min. 15.0 MPa	Reduced water absorption (W):	after 30 min	max. 2 g
			after 240 min	max. 5 g

INFORMATIVE	
Grain size	0-0.3 mm
Amount of mixing water	0.27-0.31 l/kg
Spreading rate	approx. 1400 kg/m <sup>3</sup>
Volume weight of hardened mortar	1600-1800 kg/m <sup>3</sup>
Curing period	5 min
Shelf life	max. 40 min

LASSELSBERGER, s.r.o.  
Adelova 2549/1  
320 00 Plzeň - Jižní Předměstí  
Czech Republic

TEL +420 378 021 111  
FAX +420 378 021 119  
E-MAIL info@rako.cz  
WEB www.rako.cz

BANK DETAILS: Česká spořitelna, a.s.  
6221912/0800  
Company ID number 25238078  
Tax ID number CZ25238078

### TECHNICKÝ LIST /

Time to beginning of cleaning:	wall tiles	15 min
	floor tiles	30 min
Final walking surface – waiting time (under normal conditions)		approx. 4 hours

NOTE: The technical parameters are determined under standard conditions (23 ± 2)°C and (50 ± 5)% of relative air humidity.

Approximate coverage:	mosaic	joint width of 2 mm	approx. 0.8 kg/m <sup>2</sup>
	100 x 100 mm	joint width of 3 mm	approx. 0.6 kg/m <sup>2</sup>
	150 x 150 mm	joint width of 3 mm	approx. 0.5 kg/m <sup>2</sup>
	200 x 250 mm	joint width of 3 mm	approx. 0.4 kg/m <sup>2</sup>
	300 x 300 mm	joint width of 3 mm	approx. 0.3 kg/m <sup>2</sup>

#### BASE PREPARATION:

The joints must be clean, free of dust, grease, and other impurities. They should not be frozen. Jointing can be performed only after maturation of the adhesive; vitrified non-absorbent wall tiles and floor tiles - at least 2-3 days after gluing, and 5-7 days for non-absorbent bases. Dirty joints must be scraped up to a depth of min. 3 mm, and thoroughly cleaned.

#### PROCESSING:

Pour the dry mixture uniformly into a prescribed amount of water, and mix with a stirrer at low speed to create a homogeneous mass – when mixing, the same ratio of water should be added to prevent differences in colour. Allow the mixture to stand for 5 minutes, then mix it again shortly. Mix only such an amount of mixture which you will be able to apply into joints within 40 minutes after adding water. The mixed jointing mortar should be applied into the joint diagonally, using a neoprene trowel so that the joint should be completely filled. After slight drying of mortar, the joints should be smoothed using a moistened sponge. After perfect forming the surface of the jointing material, leave the surface to slightly dry again. Then, final washing should be performed. The fresh, jointed surfaces should be protected from direct sunlight and draft.

#### Cleaning:

Hardened residues of the jointing material should be cleaned using the CL 802 product. In the first weeks, the jointed surfaces should only be cleaned with water.

#### CAUTION:

- The general rules specified in ČSN 73 3451 should be followed when designing and laying of ceramic tiles.
- The mixture can be mixed only with drinking water, or water conforming to standard EN 1008.
- It is inadmissible to add additional binders, aggregates, and other additives. Sifting of the mixture is inadmissible too.
- The mixture can be processed only under the air and base temperature over +5°C! The work cannot be done if frost is expected.
- Test whether the grouting material does not permanently damage the tiled surface.
- Residues of jointing materials in expansion joints of the inner corners and horizontal and vertical areas must be cleaned and filled with a flexible cement after drying (silicone, PUR), or they can be treated using corner and expansion profiles.
- Unused residues should be mixed with water and allow them to harden - they can be disposed of as construction wastes; contaminated containers should be disposed of as hazardous wastes (see the Safety Data Sheet).
- Only completely emptied and clean packaging may be handed over to recycling.

#### FIRST AID, SAFETY AND HYGIENE REGULATIONS:

See the product Safety Data Sheet.

#### STORAGE:

The product should be stored in original containers – protected from damage, action of water, and high relative air humidity. If the storage conditions are met, the shelf life will be 12 months. The expiration date is specified on the packaging.

#### SHIPPING:

The dry mixture is supplied in 5 kg paper bags (closed in plastic buckets) placed on pallets wrapped in foils.

#### QUALITY:

- The product quality is regularly checked in the manufacturer's laboratories.
- The production control system is used in manufacture, and a certified quality management system, according to ISO 9001, is applied.
- Continuous surveillance and proving the conformity of products (if necessary) is ensured by TZÚS Prague, Authorised Body 204.

#### DISTRIBUTOR:

LASSELSBERGER, s.r.o., Adolova 2549/1, 320 00 Pilsen – Jižní Předměstí

#### VALIDITY:

Since 1 June 2015

We reserve the right to make any changes that are the result of technical progress. This issue cancels and supersedes all previous issues.

LASSELSBERGER, s.r.o.  
Adolova 2549/1  
320 00 Plzeň - Jižní Předměstí  
Czech Republic

TEL +420 378 021 111  
FAX +420 378 021 119  
E-MAIL info@rako.cz  
WEB www.rako.cz

BANK DETAILS: Česká spořitelna, a.s.  
6221912/0800  
Company ID number 25238078  
Tax ID number CZ25238078