

FUGAMAGICA 3-20 BIO MATERIA TECH

Technical water-repellent cement-based sealant with coarse grain finish, for grouting 3-20 mm joints between ceramic tiles.



Technical data

- Powder product based on cement, selected aggregates, synthetic resins, waterproofing additives, anti-mildew additives and coloured pigments.
- **Classified CG2WA according to the norm EN 13888:** the highest mechanical and performance features.
- **Classified EC1 R plus:** with very low content of Volatile Organic Compounds (VOC) to safeguard indoor health.
- **Anti-mildew:** preventing mildew from forming on the joint surface, so that tiled surfaces are healthy and hygienic.
- **Water-repellent:** contrasting the water passage, keeping substrates dry and joints cleaner.
- **Contrasting rising efflorescence,** decreasing the risk of unpleasant floating.
- **UV ray-resistant:** colours do not fade nor change upon exposure to the light.
- **Resistant to alkali and detergents** keeping aspect unchanged in time.
- **Easy to apply and fast to clean.**

Applications

FUGAMAGICA 3-20 BIO MATERIA TECH is suitable in the following cases:

- Grouting of porcelain stoneware tiles, porous ceramic tiles, natural stones with joints from 3 to 20 mm with coarse finishing.
- Especially recommended for grouting in swimming-pools, saunas, wellness centers, bathrooms and showers.
- For grouting outdoor floors and walls where higher waterproofing, flexibility and high mechanical resistance are required, FUGAMAGICA 3-20 BIO MATERIA TECH shall be mixed with IMPER 21 replacing the water completely.

Important warnings

- Do not use FUGAMAGICA 3-20 BIO MATERIA TECH for joints with a width other than the indicated ones.
- Do not use FUGAMAGICA 3-20 BIO MATERIA TECH for flexible expansion joints (use suitable sealants by ADESITAL).
- For acid-resistant grouting use ADEPOXY, ADEPOXY MATERIA, ADEPOXY MATERIA TECH.
- For grouting floor tiles to be polished on the spot, mix with IMPER 21.

Precautions

It must be absolutely avoided to grout walls or floors with the installation layer (grout or adhesive) still wet, as the incomplete drying can result in efflorescence on the joints caused by the migration of soluble salts towards the surface, with a following non-homogeneous colour. The same problem may occur if floors have not been insulated from the ground below. When grouting very absorbing tiles, stains or small cracks can form on the coloured sealant due to the too fast absorption of the mix water. To reduce this, it is recommended to wet the tile edges before applying the sealant. The mix water must be carefully batched, as too much can cause a whitish patina on the grouting surface (efflorescence). Mixes prepared with different mixing ratios can show different colour shades and a reduction in the product mechanical performance.

Mix preparation

Mix 25 kg of FUGAMAGICA 3-20 BIO MATERIA TECH with about 5.0 l of clean water. Mix till getting a smooth and clogless mix. The mix must then rest for about 5 minutes, stirring it again before using it.

Joint preparation

Clean the joint for the whole tile thickness. If the installation has been made with adhesive, wall tiles can be grouted after 4-8 hours; floor tiles can be grouted after 24-36 hours. If the installation has been made with grout (traditional cement installation) it is recommended to grout after 2-3 days for wall tiles and after 8-10 days for floor tiles.

Application

Joints are easy to fill with FUGAMAGICA 3-20 BIO MATERIA TECH pressing the sealant by a smooth rubber squeegee. The excess sealant can be removed by damp sponge when FUGAMAGICA 3-20 BIO MATERIA TECH has a sufficient consistency (usually after 10-20 minutes from the application). The final cleaning of the wall or floor is made by a dry cloth or suitable felt when the sealant has hardened completely. To prevent any inclusion of dirt or other manufacturing residues in the newly-made cement joint, varying its colour, protect the surface for 36 hours after application.

Note: if the excess sealant is cleaned too early, joints can be partially emptied. If, on the contrary, it is made too late (over 24 hours), wait at least 7-8 days and then clean with the de-fouling cleaner ADESIT CLEAN (see technical sheet). In hot and windy days the grouting must be kept wet with clean water, after having started hardening.

Specifications

Joints of walls and floors with dimensions ranging between 3 and 20 mm shall be grouted with a cement-based sealant, with standard setting times, coloured type, water-resistant and UV-ray stable, of class CG2, with very low content of Volatile Organic Compounds (VOC) (class EC1 R plus), water-repellent, resistant to mildew, e.g. FUGAMAGICA 3-20 BIO MATERIA TECH by ADESITAL S.P.A.



GRIGIO PERLA



GRIGIO



ANTRACITE



JASMINE



BETULLA

* COLOURS ARE APPROXIMATE. SEE THE COLOUR DISPLAY

Coverage in kg/m ² of coated surface			
Tile dimensions (mm)	Joint width (mm)		
	3	8	10
75x150x6	1.0		
100x100x6	1.0		
100x100x10	1.6		
100x200x6	0.8		
100x200x10	1.2	2.0	2.4
150x150x6	0.7		
200x200x8	0.7		
120x240x12	1.2	2.0	2.4
250x250x12	0.8	1.3	1.6
250x250x20	1.3	2.1	2.6
250x330x8	0.5	0.8	0.9
300x300x8	0.5	0.7	0.9
300x300x10	0.6	0.9	1.1
300x300x20	1.1	1.7	2.2
300x600x10	0.4	0.7	0.8
330x330x10	0.5	0.8	1.0
400x400x10	0.4	0.7	0.8
450x450x12	0.5	0.7	0.9
500x500x12	0.4	0.6	0.8
600x600x12	0.4	0.5	0.7

Application cycle



- 1) Apply the sealant by the rubber squeegee, filling the joints completely. 2) Remove the excess sealant by rubber squeegee.



- 1) After the hardening has started, clean by damp abrasive sponge. 2) Complete the cleaning by damp soft sponge.

Technical data (at +23°C and 50% R.H.)	
Appearance	coarse grain powder
Colour	see colour table
Powder volume mass	1.0 g/cm ³
Storage	5 kg bag - 24 months in the original packaging and in a dry place
Safety	Please check the information on the package and on the Safety Sheet
Application data	
Mixing ratio	about 5.0 l of water every 25 kg about 0.8-1.0 l of water every 5 kg
Mix consistency	fluid paste
Pot life	2 hours
Mix volume mass	2 g/cm ³
Application temperature	from +5°C to +35°C
Mix pH	> 12
Ready for traffic	after 24 - 36 hours
Wall grouting	after 4 - 8 hours
Floor grouting	after 24 - 36 hours
Floor grouting with traditional grout	after 8-10 days
Final performance	
Resistance to humidity	fair
Resistance to solvents and oils	good
Resistance to acids	poor
Resistance to compression	30.0 N/mm ²
Resistance to bending	8.0 N/mm ²
Packages FUGAMAGICA 3-20 BIO MATERIA TECH	25 kg bag 4x5 kg box

Warning: The above indications and rules correspond to our best experience, but shall be deemed as merely indicative and shall be confirmed by exhaustive practical tests; thus, before using the product, the operator shall determine if it is suitable for its intended use and shall undertake every responsibility resulting from its use. PROFESSIONAL USE ONLY.