

BIO FUGA F CAM

**High-performance, water-repellent, fast-setting and drying
Portland cement-free grout for joints up to 20 mm.**

Classified according to CE EN 13888: CG2FWA.

CAM certified according to UNI ISO 14021/SGS Italia.



Product identification

BIO FUGA F is a high-performance, water-repellent and abrasion-resistant cement mortar for joints, ideal for grouting ceramic floors and walls, glass mosaics, marble and stone material.

BIO FUGA F uses special hydrophobic additives that make it water-repellent once dry, increasing its durability over time and reducing the proliferation of microorganisms.

Classified according to CE EN 13888: CG2FWA.

BIO FUGA F is formulated with ecological materials for the purpose of reducing CO2 emissions as well as being a product with very low VOC emissions and CAM certified according to UNI ISO 14021 issued by the international body SGS Italia.

Pluses of the product

- ❖ Water repellent.
- ❖ Quick setting.
- ❖ Good durability.
- ❖ Excellent spreadability.
- ❖ Easily cleanable final surface.
- ❖ Good abrasion resistance.
- ❖ Good resistance to acids.

Preparation of the joints

- ❖ Wait until the waiting time indicated in the technical data of the adhesive has elapsed and check that it has completely hardened before starting to grout the joints.
- ❖ The joints must be clean, free from residues or dust and empty for at least 2/3 of the thickness of the tile.
- ❖ In the case of very absorbent tiles, moisten them beforehand with water.

Ways of use

- ❖ For excellent mixing and yield of the product, we recommend using the quantity of clean, drinkable water indicated in the data table below, pour it into a bucket and/or special clean container, then pour the appropriate ratio of powdered product and mix the same with a special mixer and/or drill with suitable whisks until the composite is free of lumps and totally mixed, making sure that the agitation is complete and free from residues on the bottom.
- ❖ Before using the product, it is a good idea to wait a good 1 minute before applying in order to activate the appropriate additives.
- ❖ Fill the joints using a rubber trowel, taking care not to leave empty areas or uneven areas.
- ❖ To obtain better performance and in very hot, dry or windy climates, we recommend moistening the joints every few hours.

- ❖ Remove processing residues with a wet sponge after 10-20 minutes, checking that the mixture becomes opaque to avoid emptying the joints, working diagonally on them, taking care to rinse the sponge frequently (it is also possible to use a machine with a belt sponge).
- ❖ If the grout is already hardened, it will be necessary to resort to mechanical cleaning.
- ❖ If there are grout residues still present after final cleaning, use the EDMOCLEAN acid cleaner once fully cured.

Warnings and precautions for use

- ❖ Comply with current regulations and national provisions.
- ❖ Do not use to fill expansion or fractionation joints.
- ❖ Do not mix with other products and do not add water to the setting mixture.
- ❖ Use the product at temperatures between +5 °C and +35°C
- ❖ The water indicated on the package is indicative, it is possible to obtain mixtures with a more or less thixotropic consistency based on the application to be carried out (while still remaining within the ranges shown in the following table).
- ❖ The water must be dosed precisely to avoid the appearance of efflorescence in case of excess.
- ❖ Mixtures with different mixing ratios may have different color shades.
- ❖ For any further information, contact our EDMEC technical service.
- ❖ After filling the joints, it is not recommended to sprinkle the grouting with powder, in order to avoid unevenness in color and reduction of mechanical performance.
- ❖ Product for professional use.

Cleaning

Cleaning of tools and any product residues from surfaces must be carried out with water on fresh product. Once hardened, the product can only be removed mechanically.

Packaging

TINT	CODE FG ACR 0.4 AB	KG
GRAYISH WHITE	0281710	3.52pm
GRAYISH WHITE	0281669	4.85
BAND 1	0281670	16
BAND 1	0281673	5
BAND 2	0281671	16
BAND 2	0281674	5
BAND 3	0281672	16
BAND 3	0281675	5

Technical data

<u>Description</u>	<u>Data (+23°C & 50% RH)</u>
<u>Apparent density</u>	1400 Kg/m ³
<u>Density of the dough</u>	2000 Kg/m ³
<u>Solid residue</u>	100%
<u>Product yield</u>	Refer to the table below
<u>Dilution by mixture</u>	20.00% -26.00% depending on the color
<u>pH</u>	11
<u>Duration of the dough</u>	20-30 minutes
<u>Waiting time for finishing</u>	50-60 minutes
<u>Execution of wall joints</u>	With normal adhesive: 4-8 hours With quick adhesive: 1-2 hours With mortar: 2-3 days
<u>Execution of floor joints</u>	With sticker normal : 24h With sticker quick : 3-4 hours With mortar : 7-10 days
<u>Walkability</u>	3h.
<u>Commissioning</u>	24 hours (48 hours for tubs and swimming pools)
<u>Installation temperature</u>	+5°C ÷ +35°C
<u>Flexural strength</u>	Complies with European standard EN13888 as CG2FWA
<u>Compressive resistance</u>	
<u>Flexural strength after freeze-thaw cycles</u>	
<u>Compressive resistance after freeze-thaw cycles</u>	
<u>Abrasion resistance</u>	
<u>Water absorption after 30'</u>	
<u>Water absorption after 4h</u>	
<u>Resistance to alkalis/oils/solvents</u>	Great
<u>Humidity resistance</u>	Great
<u>Aging resistance</u>	Great
<u>Acid resistance</u>	Good with pH > 3
<u>Operating temperature</u>	-30°C ÷ +80°C
<u>Color</u>	Can be colored using the OUTDOOR color swatch, refer to the table below

The information contained in this sheet is the result of knowledge and tests available at the date of publication.
DM SRLS UNIPERSONALE does not assume any responsibility for damage to persons or property resulting from improper use of such information and reserves the right to modify the data without notice.

Consumption table based on the size of the tile and the width of the joints (kg/m²)

Tile dimensions (mm)	Joint width (mm)				
	2	3	5	8	10
75x150x6	0.4	0.6	1.0	1.0	1.9
100x100x7	0.4	0.7	1.1	1.0	2,2
100x100x9	0.6	0.9	1.4	2.0	2.9
150x150x6	0.3	0.4	0.6	1.0	1.3
200x200x7	0.2	0.3	0.6	0.9	1.1
200x200x9	0.3	0.4	0.7	1,2	1.4
300x300x10	0.2	0.3	0.5	0.9	1.1
300x300x20	0.4	0.6	1.1	1.7	2.1
300x600x10	0.2	0.2	0.4	0.6	0.8
400x400x10	0.2	0.2	0.4	0.6	0.8
500x500x10	0.1	0.2	0.3	0.5	0.6
600x600x10	0.1	0.2	0.3	0.4	0.5
750x750x10	0.1	0.1	0.2	0.3	0.4
100x600x9	0.3	0.5	0.8	1.3	1.7
150x600x9	0.2	0.4	0.6	1.0	1,2
150x900x9	0.2	0.3	0.6	0.9	1.1
150x1200x10	0.2	0.4	0.6	1.0	1,2
225x450x9	0.2	0.3	0.5	0.8	1.0
225x900x9	0.2	0.2	0.4	0.6	0.8
250x900x9	0.1	0.2	0.4	0.6	0.7
250x1200x10	0.2	0.2	0.4	0.6	0.8
600x600x5	0.1	0.1	0.1	0.2	0.3
600x600x3			0.1	0.1	0.2
1000x500x3		0.1	0.1	0.2	0.1
1000x500x5			0.1	0.1	0.2
1000x1000x5			0.1	0.1	0.1
1000x1000x3				0.1	0.1
3000x1000x5			0.1	0.1	0.1
3000x1000x3				0.1	0.1
Formula for calculating consumption	$\frac{(A+B)}{(A \times B)} \times C \times D \times 1,6 = \text{kg/m}^2$			A = Tile length (in mm) B = Tile width (in mm) C = Tile thickness (in mm) D = Joint width (in mm)	

COLOR BANDS

Color code "Light colors F1"							Color code "Medium shades F2"	Color code "Dark shades F3"
1001	2079	3008	3097	3183	4013	6002	2017	2033
1002	2080	3009	3098	3205	4014	6003	2045	3048
1003	2081	3013	3099	3206	4015	6007	3116	3102
1007	2085	3014	3100	3207	4019	6008	3126	3194
1008	2086	3015	3101	3211	4020	6009	3127	3236
1009	2087	3025	3109	3212	4021	6013	3129	3273
2001	2091	3026	3110	3213	4037	6014	3136	
2002	2092	3027	3111	3217	4038	6015	3138	
2003	2093	3031	3115	3218	4039	6016	3153	
2007	2097	3032	3117	3219	4043	6017	3177	
2013	2098	3033	3121	3223	4044	6019	3182	
2014	2099	3037	3122	3224	4045	6021	3193	
2015	2103	3038	3123	3225	4046	6020	3195	
2016	2104	3039	3124	3237	4047	6025	3199	

2019	2105	3043	3125	3241	4048	6026	3200
2020	2109	3044	3128	3242	5001	6027	3201
2021	2110	3045	3133	3243	5002	6028	3235
2025	2111	3046	3134	3247	5003	6029	3237
2026	2115	3047	3135	3248	5013	6030	3285
2027	2116	3049	3137	3249	5014	6031	4048
2031	2117	3050	3139	3253	5015	6032	6018
2032	2112	3051	3140	3254	5019	6033	6036
2033	2121	3055	3141	3255	5020	6034	6044
2037	2122	3056	3145	3259	5021	6035	6056
2038	2123	3057	3146	3260	5025	6036	
2039	2127	3061	3147	3261	5026	6037	
2043	3129	3062	3151	3265	5027	6039	
2044	2133	3063	3152	3266	5031	6043	
2049	2134	3067	3157	3267	5032	6045	
2050	2135	3068	3158	3271	5033	6055	
2051	2139	3069	3159	3272	5037	6057	
2055	2140	3073	3163	3277	5038		
2056	2141	3074	3164	3278	5039		
2057	2145	3075	3165	3279	5043		
2061	2146	3079	3169	3283	5044		
2062	2147	3080	3170	3284	5045		
2063	2151	3081	3171	3285	5049		
2067	2152	3085	3175	4001	5050		
2068	2153	3086	3176	4002	5051		
2069	3001	3087	3178	4003	5055		
2073	3002	3091	3179	4006	5056		
2074	3003	3092	3180	4007	5057		
2075	3007	3093	3181	4008	6001		

NB The code colors identified as NT. They are part of "New Trends" colors, therefore a dedicated quotation will be made.

For further technical information:

EDMEC DM

Via Scala n°628/D

41038 San Felice s/P (MO)

Part. VAT and Fiscal Code: 03728460365

info@edmec.it / www.edmec.it