

KERACOLOR GG

High performance, polymer-modified, cement-based grout for joints from 4 to 15 mm



CLASSIFICATION IN COMPLIANCE WITH EN 13888

Keracolor GG is an improved (2) cementitious (C) grout (G), with reduced water absorption (W) and high abrasion resistance (A), classified as CG2WA.

WHERE TO USE

Grouting interior and exterior floors and walls in all types of ceramic tiles (single fired, double fired, klinker, porcelain tiles, etc.), terracotta, facebrick and stone material (natural stone, marble, granite, agglomerates, etc.).

Some application examples

- Grouting façades, balconies, terraces and swimming pools.
- Grouting floors with a rustic finish (terracotta, enamelled porcelain, antiqued marble, klinker, single fired tiles).
- Grouting floor and wall ceramic tiles in interiors.
- Grouting ceramic tiled industrial flooring where resistance to chemicals is not required (garages, warehouses, etc.).

TECHNICAL CHARACTERISTICS

Keracolor GG is a mixture of cement, graded aggregates, synthetic resins, special additives and pigments. It has a very low emission of volatile organic compounds and is classified Emicode EC1 Plus by GEV. The following features are obtained when mixed with the right water ratio and used correctly:

- good compressive and flexural strength, and good resistance to freeze/thaw cycles, therefore good durability;
- good abrasion resistance;
- low shrinkage, therefore absence of cracks and fissures;
- good resistance to acids with pH >3;
- excellent cost-performance ratio.

When mixing **Keracolor GG** with **Fugolastic**, a special synthetic resin based polymeric additive, the final characteristics are improved, achieving adequate resistance even under harsh conditions (grouting façades, swimming pools, bathrooms, floors subjected to heavy traffic).

For further information refer to **Fugolastic** Technical Data Sheet.

RECOMMENDATIONS

- Do not mix to **Keracolor GG** with cement or any other products. Never add water to the mixture that has begun to set.
- Do not blend different colours of grout together as there is a risk of colour inconsistency and non-uniform final shade once the grout has set.
- Never mix **Keracolor GG** with salt or dirty water.
- Use the product in temperatures between +5°C and +35°C.
- The amount of mixing water must be precisely measured. An excess of water could induce the appearance of a whitish coat over the surface (efflorescence). If mixtures with different mix ratios are prepared, different colour tones could result. Efflorescence over the surface is due to the formation of calcium carbonate and could also be caused by moisture residue contained in adhesives, not fully hydrated grouts, in substrates not adequately dried, or in substrates not adequately protected from rising damp.
- After having filled the joints with the mixture, do not broadcast the grouts with **Keracolor GG** powder to avoid an uneven colour.
- When resistance to acids or hygienic finish is required, use a suitable anti-acid grout (e.g. **Kerapoxy**).
- Expansion joints and distribution joints in floors and walls should never be filled with **Keracolor GG**, but with the appropriate flexible MAPEI sealants.
- Occasionally the surface of some ceramic tiles or stone materials are rough or contain micro-porosities. It is recommended to make a sample test to verify cleanability and when necessary, apply a protective treatment over the surface, avoiding its penetration into the joints.

APPLICATION PROCEDURE

Preparing the joints

Before grouting the joints, wait until the installation mortar or the adhesive has completely hardened. Verify that the waiting time indicated on the relevant Technical Data Sheets has passed.

The joints must be clean, free of dust and emptied to at least 2/3 of the tile thickness. The excess adhesive or mortar should be removed while still fresh.

Wet the joints with clean water when using very porous ceramic tiles in high temperatures and in the presence of wind.

Preparing the mix

While stirring, pour **Keracolor GG** into a clean, rust-free container containing 18-20% by weight of clean water or **Fugolastic** (if required in the application).

When grouting floors, the mixture can be made thinner by adding more water (approx. 24% by weight).

Mix, preferably with a low-speed mixer to avoid excess formation of air bubbles, to a smooth consistency.

Wait 2-3 minutes and briefly re-stir before use.

Use the mixture within 2 hours of preparation.

Applying the grout

Fill the joints well with **Keracolor GG** using the appropriate MAPEI trowel or rubber float, making sure the joints are completely compacted, with no unevenness. Remove excess **Keracolor GG**, while still fresh, from the surface moving the trowel or float diagonally across the joints.

Finishing

When the mixture loses its plasticity and becomes opaque, usually after 10-20 minutes, clean excess **Keracolor GG** with a damp hard cellulose sponge (e.g. MAPEI sponge) working diagonally to joints. Rinse the sponge frequently using two separate buckets of water: one to remove the excess mixture from the sponge and the other with clean water for rinsing out the sponge. This can also be carried out with a power float.

To help remove the hardened product from the tiles, use a dampened Scotch-Brite® pad or a disc-type power float with special abrasive-felt discs.

If cleaning is carried out too soon (when the mixture is still plastic), the joints may be partially emptied, therefore more subject to colour variations. On the other hand, if the grout has already hardened, it is necessary to clean the surface mechanically, which could scratch the surface of the tiles.

When applying **Keracolor GG** in extremely hot, dry or windy climates, it is recommended to wet the joints after a few hours.

The wet curing always improves its final performance.

Final cleaning of a powdery haze of **Keracolor GG** from the surface is carried out with a clean dry cloth. After the final cleaning, if the surface of the floors or walls is still covered with cementitious residues, an acid cleaner can be used (e.g. **UltraCare Keranet**), when the grout is completely cured. If a product to remove grout residues at the time of application is required, the use of **UltraCare Keranet Easy**, suitable to remove excess grout from surfaces immediately after application, is recommended. For the use of products from the **UltraCare** range, please refer to the relative Technical Data Sheets.



Application of Keracolor GG with MAPEI float



Cleaning and finishing grouts with hard cellulose sponge



Floor grouted with Keracolor GG

SET FOR LIGHT FOOT TRAFFIC

Floors are set for light foot traffic after approx. 24 hours.

READY FOR USE

(with hypothetical curing at +23°C and 50% R-H.)

Floors are ready for traffic after 3 days.

Basins and swimming pools can be filled 7 days after grouting.

CLEANING

Clean tools and containers with plenty of water before **Keracolor GG** hardens.

CONSUMPTION

The consumption of **Keracolor GG** varies depending on the width of the joints, the size and thickness of the tiles. Please refer to the product calculator to estimate consumption rates at www.mapei.com. Some examples of coverage in kg/m² are shown in the chart.

PACKAGING

25 kg bags and boxes containing 4x5 alupacks depending on the colour.

COLOURS

Keracolor GG is available in 13 colours from the MAPEI range (please refer to the colour samples).

STORAGE

Keracolor GG can be stored 12 months (25 kg bags) and 24 months (5 kg bags) in a dry place in its original packaging. Please refer to packaging label.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

In compliance with:

- European EN 13888 as CG2WA
- ISO 13007-3 as CG2WA

PRODUCT IDENTITY

Type:	granular powder
Colour:	13 colours from the MAPEI range
Bulk density (kg/m ³):	1,300-1,500
Dry solids content (%):	100
EMICODE:	EC1 Plus - very low emission

APPLICATION DATA at +23°C and 50% R.H.

Mixing ratio:	100 parts of Keracolor GG with 18-20 parts of water by weight
Consistency of mix:	thin paste
Density of mix (kg/m ³):	2,000
pH of mix:	approx. 13
Pot life of mix:	approx. 2 hours
Application temperature:	from +5°C to +35°C
Grouting after installation: - on walls bonded with normal setting adhesive: - on walls bonded with fast setting adhesive: - on walls laid with mortar: - on floors bonded with normal setting adhesive: - on floors bonded with fast setting adhesive: - on floors laid with mortar:	4-8 hours 1-2 hours 2-3 days 24 hours 3-4 hours 7-10 days
Waiting time for finishing:	10-20 minutes
Set to light foot traffic:	24 hours
Ready for use:	3 days (7 days for tanks and swimming pools)

FINAL PERFORMANCES

Flexural strength after 28 days (EN 12808-3): Compressive strength after 28 days (EN 12808-3): Flexural strength after freeze-thaw cycles (EN 12808-3): Compressive strength after freeze-thaw cycles (EN 12808-3): Abrasion resistance (EN 12808-2): Shrinkage (EN 12808-4): Water absorption after 30 min. (EN 12808-5): Water absorption after 240 min. (EN 12808-5):	In compliance with European norm EN 13888 as CG2WA
Resistance to moisture:	excellent
Resistance to ageing:	excellent
Resistance to solvents, oils and alkali:	excellent
Resistance to acids:	good if pH > 3
Resistance to temperature:	from -30°C to +80°C

**CONSUMPTION TABLE DEPENDING ON THE SIZE OF THE TILE
AND WIDTH OF THE JOINT S (kg/m²)**

Width of the joint (mm)	Width of the joint (mm)			
	4	5	8	10
75x150x6	0.8	1.0		
100x100x7	0.9	1.1		
100x100x9	1.2	1.4		
150x150x6	0.5	0.6		
200x200x7	0.4	0.6		
200x200x9	0.6	0.7		
300x300x10	0.4	0.5		
300x300x20	0.9	1.1		
300x600x10	0.3	0.4		
400x400x10	0.3	0.4		
500x500x10		0.3		
600x600x10		0.3		
750x750x10		0.2		
100x600x9		0.8		
150x600x9		0.6		
150x900x9		0.6	0.9	
150x1200x10		0.6	1.0	
225x450x9		0.5		
225x900x9		0.4	0.6	
250x900x9		0.4	0.6	
250x1200x10		0.4	0.6	
600x600x5		0.1	0.2	

600x600x3		0.1	0.1	
1000x500x5			0.2	
1000x500x3			0.1	
1000x1000x5				0.2
1000x1000x3				0.1
3000x1000x5				0.1
3000x1000x3				0.1

CONSUMPTION CALCULATION FORMULA:

$$\frac{(A + B)}{(A \times B)} \times C \times D \times 1.6 = \frac{\text{kg}}{\text{m}^2}$$

A = length of the tile (in mm)

B = width of the tile (in mm)

C = thickness of the tile (in mm)

D = width of the joint (in mm)

For sizes not covered by the table, our website www.mapei.com has a calculator available to estimate consumption rates according to the size of the tiles and the width of the joints.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

Keracolor GG		
100	WHITE	
111	SILVER GREY	
110	MANHATTAN 2000	
112	MEDIUM GREY	
113	CEMENT GREY	
114	ANTHRACITE	

130	JASMINE	
131	VANILLA	
132	BEIGE 2000	
141	CARAMEL	
142	BROWN	
144	CHOCOLATE	
145	TERRA DI SIENA	

N.B.: Due to the printing processes involved, the colours should be taken as merely indicative of the shades of the actual product

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