MAPEI

GEV-EMICODE EC 1 very low emission

GEV EMICODE

Keracolor GG

COMPLIES WITH AUSTRALIAN STANDARD AS 4992.3-2004 CG2 MAPEI CEMENTITIOUS GROUT

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

SURPASSES THE REQUIREMENTS OF AS 4992.3-2006

Keracolor GG is an improved (2) cementitious (C) grout (G) classified as CG2.

WHERE TO USE

Keracolor GG grout is used for grouting interior and exterior floors and walls for 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, antique 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.
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;

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Grouting a terracotta tile floor with float

Grouting a ceramic tile floor with a sponge trowel

Grouting an external wall with a float

• excellent cost-quality 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 consult the **Fugolastic** Technical Data Sheet.

RECOMMENDATIONS

- Do not use **Keracolor GG** with cement or any other products. Never add water to the mixture that has begun to set.
- Never mix **Keracolor GG** with salty 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 the consequence of not fully hydrated grouts, of substrates not adequately dry, or of substrates not adequately protected from rising damp.
- After filling the joints do not sprinkle **Keracolor GG** powder on to the grout line as this can cause uneven colour and reduce the mechanical strength of the grout.
- When resistance to acids or a hygienic finish is required, use a suitable acid resistant grout such as **Kerapoxy**.
- Expansion joints and fraction joints in floors and walls should never be filled with **Keracolor GG**, but with the appropriate flexible MAPEI sealant (eg. **Mapesil AC**).
- 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, but 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 17-20% 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. 20% by weight).
Mix to a smooth consistency with a low speed mixer, avoiding the formation of air bubbles.
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 several hours.
The wet curing always improves its final performance.
Final cleaning of any 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 are still covered with excess **Keracolor GG**, an acid cleaner can be used (e.g. **Keranet**), following the relevant instructions, at least 10 days after grouting the joints. Use **Keranet** only on acid-resistant surfaces and never on marble or lime materials.

SET FOR LIGHT FOOT TRAFFIC

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

READY FOR USE

Floors are ready for traffic after 7 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 coverage of **Keracolor GG** varies depending on the width of the joints and the size and thickness of the tile.
Some examples of coverage in kg/m^2 are shown in the consumption chart overleaf.

PACKAGING

20 kg bags for light coloured grouts and 25 kg bags for darker coloured grouts.

COLOURS

Keracolor GG is available in 7 colours from the MAPEI range (please refer to the grout chart).

TECHNICAL DATA (typical values)

In compliance with:

– Australian AS 4992.3 - 2006
– European EN 13888 as CG2
– American ANSI A118.6 - 1999

PRODUCT IDENTITY	
Type:	granular powder
Colour:	7 colours from the MAPEI range
Bulk density (kg/m³):	1300-1500
Dry solid content (%):	100
Storage:	12 months in a dry place in original packaging
Hazard classification according to EC 1999/45:	irritant. Before using refer to the "Safety Instructions for preparation and application" paragraph and the information on the packing and Safety Data Sheet
Customs class:	3824 50 90
APPLICATION DATA (at +23°C and 50% R.H.)	
Mixing ratio:	100 parts **Keracolor GG** with 17-20 parts water by weight
Consistency of mix:	thin paste
Density of mix (kg/m³):	2000
pH of mix:	approx. 13
Pot life:	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 with mortar:** **– on floors bonded with normal setting adhesive:** **– on floors bonded with fast setting adhesive:** **– on floors 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 for light foot traffic:	24 hours
Ready for use:	7 days
FINAL PERFORMANCES	
Surpasses the requirements of AS4992.3 - 2006	
Resistance to moisture:	excellent
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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

Wall finishing with a sponge

Floor finishing with a machine

Cleaning a singles-fired tile floor with a sponge brush

Keracolor GG

CONSUMPTION TABLE DEPENDING ON THE SIZE OF THE TILE AND WIDTH OF THE JOINTS (kg/m²)				
Size of the tile (mm)	Width of the joint (mm)			
	3	8	10	15
75 X 150 X 6	1.0			
100 X 100 X 6	1.0			
100 X 100 X 10	1.6			
100 X 200 X 6	0.8			
100 X 200 X 10	1.2	2.0	2.4	
150 X 150 X 6	0.7			
200 X 200 X 8	0.7			
120 X 240 X 12	1.2	2.0	2.4	
250 X 250 X 12	0.8	1.3	1.6	
250 X 250 X 20	1.3	2.1	2.6	3.9
250 X 330 X 8	0.5	0.8	0.9	
300 X 300 X 8	0.5	0.7	0.9	
300 X 300 X 10	0.6	0.9	1.1	
300 X 300 X 20	1.1	1.7	2.2	3.2
300 X 600 X 10	0.4	0.7	0.8	
330 X 330 X 10	0.5	0.8	1.0	
400 X 400 X 10	0.4	0.7	0.8	
450 X 450 X 12	0.5	0.7	0.9	
500 X 500 X 12	0.4	0.6	0.8	
600 X 600 X 12	0.4	0.5	0.7	

CONSUMPTION CALCULATION FORMULA:

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

A = length of tile (in mm)
B = width of the tile (in mm)
C = thickness of the tile (in mm)
D = width of the joint (in mm)

STORAGE

Keracolor GG can be stored up to 12 months in a dry place in original packaging.

Manufactured in compliance with the regulations of the 2003/53/EC Directive.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Keracolor GG contains cement that when in contact with sweat or other bodily fluids can produce an irritant alkaline reaction and allergic reactions to those predisposed. Use protective gloves and goggles. For further information refer to the Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product report 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 applications: 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.

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This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

Our Commitment To The Environment
More than 150 MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

GREEN INNOVATION

All relevant references for the product are available upon request and from www.mapei.com.au

An example of a grouted antique marble stone floor

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