



Keracolor GG



**High performance
cement based grout for
4 to 15 mm joints**

CLASSIFICATION IN COMPLIANCE WITH prEN 13888

Keracolor GG is an improved cementitious grout (high resistance to abrasion - Ar - and reduced water absorption - W) as class CG2.

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 stones, marble, granite, agglomerates, etc.).

Some application examples

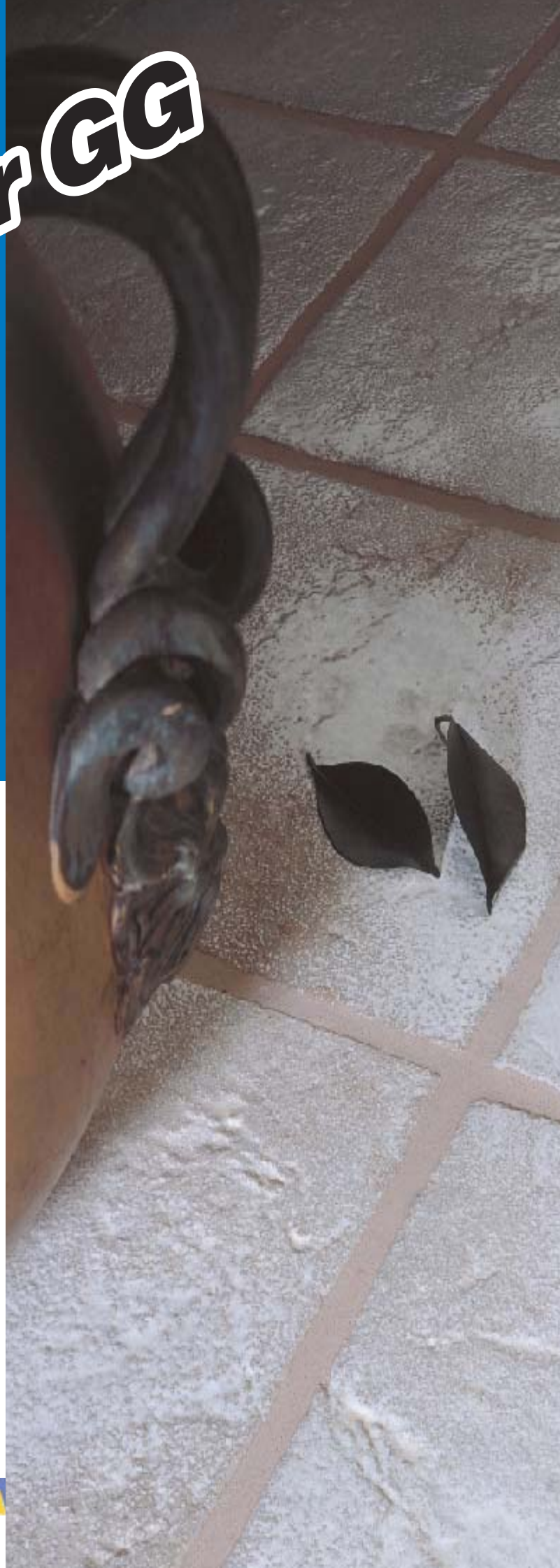
- Grouting façades, balconies, terraces and swimming pools.
- Grouting floors with a rustic finishing (terracotta, enamelled porcelain, antiqued marble, klinker, single fired tiles).
- Grouting floor and wall ceramic tiles in interiors.
- Grouting ceramic tile industrial flooring where resistance to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

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.



Keracolor GG



Grouting a terracotta tile floor with a rubber float



Grouting a ceramic tile floor with a sponge trowel



Grouting an external wall with a trowel

- Good resistance to acids with pH > 3.
 - Excellent cost-quality ratio.
- When mixing **Keracolor GG** with **Fugolastic**, a special synthetic resin based polymeric additive, the final characteristics improve, achieving the adequate resistance even under harsh conditions of use (grouting façades, swimming pools, bathrooms, floors with 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 is beginning to setting.
- Never mix **Keracolor GG** with salt or dirty water.
- Use the product in temperatures between +5°C and +35°C.
- The amount of water of the mixture 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, it is recommended not to strew the grouts with **Keracolor GG** powder to avoid an uneven colour.
- When resistance to acids or hygiene is required, use the suitable anti-acid grout (e.g. **Kerapoxy**).
- Expansion joints and fraction joints in floors and walls should never be filled with **Keracolor GG**, but with the appropriate flexible MAPEI sealants.
- Sometimes 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 protection 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 have completely hardened. Verify the waiting time indicated on the relevant technical data sheets has passed.

The joints must be cleaned, free of dust and emptied 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 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. 17-24% by weight).

Mix, possibly 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 from 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 to 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 early (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.

Curing **Keracolor GG**, the wet curing always improves its final performances.

Final cleaning of a possible 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 dirty with **Keracolor GG** due to improper application technique, an acid cleaner can be used (for 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, the size and thickness of the tiles. Some examples of coverage in kg/m² are shown in the chart.

PACKAGING

25 kg bags, 4x5 kg boxes depending on the colour.

TECHNICAL DATA (typical values)

In compliance with:

– European prEN 13888 as CG2
– American ANSI A118.6 - 1999

PRODUCT IDENTITY:

Type:	granular powder
Colour:	10 colours from "THE COLOURED GROUTS 2000" range
Density (apparent):	1.3-1.5 g/cm ³
Dry solid content:	100%
Storage:	12 months in a dry place in original packaging
Health hazard according to EEC 88/379:	none
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:	2.0 g/cm ³
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:	4-8 hours
– on walls bonded with fast setting adhesive:	1-2 hours
– on walls with mortar:	2-3 days
– on floors bonded with normal setting adhesive:	24 hours
– on floors bonded with fast setting adhesive:	3-4 hours
– on floors with mortar:	7-10 days
Waiting time for finishing:	10-20 minutes
Set for light foot traffic:	24 hours
Ready for use:	7 days

FINAL PERFORMANCES:

Flexural strength after 28 days (prEN 12808-3):

Compressive strength after 28 days (prEN 12808-3):

Flexural strength after freeze-thaw cycles (prEN 12808-3):

Compressive strength after freeze-thaw cycles (prEN 12808-3):

Abrasion resistance (prEN 12808-2):

Shrinkage (prEN 12808-4):

Water absorption after 30 min. (prEN 12808-5):

Water absorption after 240 min. (prEN 12808-5):

In compliance
with European norm
prEN 13888
as CG2

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



Wall finishing with a sponge



Floor finishing with a machine



Cleaning a single-fired tile floor with a sponge brush

Keracolor GG



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:

$$\frac{(A + B)}{(A \times B)} \times C \times D \times 1,6 = \frac{\text{kg}}{\text{m}^2}$$

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

COLOURS

Keracolor GG is available in 10 colours from the "THE COLOURED GROUTS 2000" range.

STORAGE

N.B.: Keracolor GG can be stored 12 months in a dry place in original packaging.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND INSTALLATION

Contains cement that when in contact with sweat or other body fluids produces an irritant alkaline reaction. Use protective gloves and goggles. For further information consult the safety data sheet.

FOR PROFESSIONALS.

WARNING

N.B. - 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.

All relevant references of the product are available upon request.



BUILDING THE FUTURE

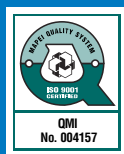
MAPEI GROUP CERTIFIED MANAGEMENT SYSTEMS (Quality, Environment and Safety)



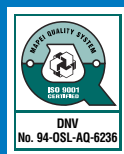
MAPEI S.p.A. - ITALY



MAPEI FRANCE



MAPEI INC - CANADA



RESCON MAPEI AS - NORWAY



MAPEI KTF. - HUNGARY



MAPEI FAR EAST Pte Ltd



MAPEI Sro - CZECH REP.



An example of a grouted antiqued marble stone floor

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(GB) A.G. BETA