

# KERACOLOR SF CLASSIC

High performance cementitious grout, super-fine, polymer modified, for joints up to 4 mm.



## CLASSIFICATION ACCORDING TO ISO 13007-3

**Keracolor SF Classic** is a normal (I) cementitious mortar (C) for filling joints (G), class CG1.

## WHERE TO USE

**Keracolor SF Classic** is used for filling joints, both indoors and outdoors, on floors and walls, and ceramic coverings of all types (single-fired, double-fired, porcelain tiles, etc.), stone materials (natural stone, marble, granite, etc.), glass and marble mosaic.

### Some application examples

- Filling ceramic and vitrified tile joints in floors and walls.
- Filling joints with glass mosaics.
- Filling joints in floors with surfaces particularly smooth and shiny (polished porcelain, polished marble, glazed tiles, etc.).

## TECHNICAL CHARACTERISTICS

**Keracolor SF Classic** is made up of admixture of cement, particularly fine-grained aggregates, special polymers, special additives and pigments.

When mixed with water in the proportions recommended and correctly applied, it forms a grouting mortar with the following characteristics:

- good compressive and flexural strength and good resistance to freeze/thaw cycles, and therefore excellent durability;
- smooth, compact finished surface with a very fine grain structure, with low water absorption and therefore easy cleaning;
- good resistance to abrasion;
- low shrinkage rate, therefore free of cracks and fissures;
- good resistance to acids with PH > 3;
- excellent cost- performance ratio.

## RECOMMENDATIONS

- Do not mix **Keracolor SF Classic** with cement or other products and never add water once it has started 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 SF Classic** with salt-water or dirty water.
- Use the product at temperatures between +5°C and +35°C.
- The water in the mixture must be dosed precisely, since an excess can favor the appearance of a whitish patina on the surface of the grout (efflorescence). If mixtures are prepared with different mixing ratios, they may have different color shades. The appearance of efflorescence on the surface is due to the formation of calcium carbonate and can also be caused by residual moisture contained in adhesives or in mortars that are not completely hydrated or in substrates that are not dry or not adequately protected from rising damp.
- Expansion and distribution joints on walls and floors should never be filled with **Keracolor SF Classic**, but with appropriate Mapei elastic sealants.
- In the case of tiles or slabs of stone material which have micro-porosity or a rough surface, carry out a preliminary test on a small piece to check whether it may be easily cleaned. If necessary, treat the surface with a protective treatment to the surface, ensuring that it does not run into the tile joints.
- Do not use **Keracolor SF Classic** to grout tile joints wider than 4 mm (use **Keracolor FF** or **Keracolor GG**).
- With particularly absorbent tiles and thin tile joints, we recommend that the surface is dampened before grouting.

## APPLICATION PROCEDURE

### Preparation of the joints

Before grouting the joints, wait until the mortar or the adhesive is completely set.

Make sure that the waiting times indicated in the Technical Data Sheets are strictly adhered to. The joints must be clean, free from dust and empty down to at least 2/3 of the thickness of the tiles.

Any adhesive or mortar which has seeped into the joints while laying the tiles must be removed whilst still fresh.

### Preparing the mix

Pour **Keracolor SF Classic** into a clean, rust-free container of clean water or **Fugolastic** (if required for the application) while mixing, at a ratio of 30-35% by weight.

Stir the mix, preferably with a low-speed mixer to avoid entraining air, until a smooth paste is obtained. Let the mix stand for 2-3 minutes, and stir again briefly before use. Use the mix within 2 hours of its preparation.

### Application

Fill the joints with the **Keracolor SF Classic** mixture using a suitable rubber float trowel, without leaving any gaps or steps.

Remove any excess **Keracolor SF Classic** from the surface, by moving the trowel diagonally across the joints, while the mixture is still fresh.

### Finishing

When the mix loses its plasticity and becomes opaque, which usually takes place after 10-20 minutes, clean the residual **Keracolor SF Classic** with a hard damp sponge, working diagonally over the joints. Rinse the sponge frequently using two different containers of water: one to remove excess mixture from the sponge, and the other of clean water to rinse the sponge. To facilitate the removal of the hardened product on the tiles, before cleaning with the sponge, you can use a moistened Scotch-Brite® pad or a machine with a rolling disc equipped with special abrasive felt discs.

If cleaning operation is carried out too soon (the mix is still too plastic), the joints may be partially emptied, therefore more subject to color variations. On the other hand, if the grout has already set, it will have to be cleaned mechanically, which may cause scratching on the surface of the tiles. If grouting is carried out in extremely hot, dry or windy weather, we recommend damping the joints filled with **Keracolor SF Classic** after a few hours.

Damp curing of **Keracolor SF Classic** improves its final characteristics in all cases. Final cleaning of the powdery film of **Keracolor SF Classic** from the surface may be carried out with a clean, dry cloth.

After final cleaning, if the surface of the floor or walls is still covered with residues of **Keracolor SF Classic**, an acidic cleaner (e.g. **UltraCare Keranet**) may be used, following the relevant instructions, at least 10 days after filling the joints. Use **UltraCare Keranet** only on acid-resistant surfaces and never on marble or calcareous material.

## SET TO LIGHT FOOT TRAFFIC

Floors are ready for light foot traffic after approximately 24 hours.

## READY FOR USE

Floors are ready for use after approx. 3 days. Swimming pools and tanks can be filled 7 days after grouting.

## CLEANING

Tools and containers can be cleaned using plenty of water if the **Keracolor SF Classic** is still fresh.

## CONSUMPTION

Coverage of **Keracolor SF Classic** varies depending on the width of the joints, the size and thickness of the tiles.

## PACKAGING

Available in 1 kg bag.

## COLOURS AVAILABLE

**Keracolor SF Classic** is available in 6 colors from the MAPEI range.

## STORAGE

**Keracolor SF Classic** stored in dry environments, in the original closed container, has a shelf life of 12 months.

## SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

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](http://www.mapei.com).  
PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

In compliance with:  
– ISO 13007-3 as CGI

PRODUCT IDENTITY

|                                    |             |
|------------------------------------|-------------|
| Consistency:                       | fine powder |
| Colour:                            | white (100) |
| Bulk density (kg/m <sup>3</sup> ): | 880         |
| Dry solids content (%):            | 100         |

#### APPLICATION DATA (+23°C and 50% R.H.)

|                                                  |                                              |
|--------------------------------------------------|----------------------------------------------|
| Mixing ratio (%):                                | 30-35                                        |
| Consistency of the mix:                          | fluid paste                                  |
| Density of mix (kg/m <sup>3</sup> ):             | 1,960                                        |
| pH of mix:                                       | approx. 13                                   |
| Pot life of mix:                                 | approx. 2 hours                              |
| Application temperature range:                   | from +5°C to +35°C                           |
| Waiting time for grouting after laying:          |                                              |
| – on walls bonded with normal setting adhesive:  | 4-8 hours                                    |
| – on walls bonded with fast setting adhesive:    | 1-2 hours                                    |
| – on walls laid 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 laid with mortar:                    | 7-10 days                                    |
| Waiting time before 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 (ISO 13007-4):<br>Compressive strength after 28 days (SO 13007-4):<br>Flexural strength after freeze/thaw cycles (SO 13007-4):<br>Compressive strength after freeze/thaw cycles (SO 13007-4):<br>Abrasion resistance (SO 13007-4):<br>Shrinkage (SO 13007-4):<br>Water absorption after 30 mins. (SO 13007-4):<br>Water absorption after 4 hours (SO 13007-4): | In compliance with ISO 13007-3 as CG1 |
| Resistance to humidity:                                                                                                                                                                                                                                                                                                                                                                        | excellent                             |
| Resistance to ageing:                                                                                                                                                                                                                                                                                                                                                                          | excellent                             |
| Resistance to solvents, oil and alkalis:                                                                                                                                                                                                                                                                                                                                                       | excellent                             |
| Resistance to acids:                                                                                                                                                                                                                                                                                                                                                                           | good if pH > 3                        |

Temperature resistance:

from -30°C to +80°C

CONSUMPTION TABLE DEPENDING ON THE SIZE OF THE TILE AND WIDTH OF THE JOINTS (kg/m<sup>2</sup>)

| Size of the tile (mm) | Width of the joint (mm) |     |     |
|-----------------------|-------------------------|-----|-----|
|                       | 2                       | 3   | 4   |
| 20x20x4               | 1.2                     |     |     |
| 50x50x4               | 0.5                     |     |     |
| 75x150x6              |                         | 0.5 | 0.7 |
| 100x100x7             |                         | 0.6 | 0.8 |
| 100x100x9             |                         | 0.8 | 1.1 |
| 150x150x6             |                         | 0.4 | 0.5 |
| 200x200x7             |                         | 0.3 | 0.4 |
| 200x200x9             |                         | 0.4 | 0.5 |
| 300x300x10            |                         | 0.3 | 0.4 |
| 300x300x20            |                         | 0.6 | 0.8 |
| 300x600x10            |                         | 0.2 | 0.3 |
| 400x400x10            |                         | 0.2 | 0.3 |
| 500x500x10            |                         |     | 0.2 |
| 600x600x10            |                         |     | 0.2 |
| 750x750x10            |                         |     | 0.2 |
| 100x600x9             |                         |     | 0.6 |
| 150x600x9             |                         |     | 0.5 |
| 150x900x9             |                         |     | 0.4 |
| 150x1200x10           |                         |     | 0.5 |
| 225x450x9             |                         |     | 0.4 |
| 225x900x9             |                         |     | 0.3 |
| 250x900x9             |                         |     | 0.3 |
| 250x1200x10           |                         |     | 0.3 |
| 600x600x5             |                         |     | 0.1 |
| 600x600x3             |                         |     | 0.1 |

## CONSUMPTION CALCULATION FORMULA:

$$\frac{(A + B)}{(A \times B)} \times C \times D \times 1.5 = \frac{\text{kg}}{\text{m}^2}$$

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)

## 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](http://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](http://www.mapei.com).*

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