

# Fugolastic

**Liquid polymeric  
additive for  
Keracolor FF and GG**

## **WHERE TO USE**

**Fugolastic** is used as a substitute for water, to mix the cement based grouts **Keracolor FF** and **GG**, to improve the grout adhesion and mechanical strength and to reduce porosity and absorption. The system is CG2 classified, improved cementitious grout, according to prEN 13888.

## **Some application examples**

- Grouting façades, balconies, terraces and swimming pools.
- Grouting floors subject to heavy traffic, and when it is expected that grouts undergo particular stress.
- Repairing old, ruined or badly grouted ceramic tiles.
- Grouting floors and walls on particularly flexible substrates (wood, plywood etc.).
- Grouting ceramic or glass mosaic floor and wall coverings.
- Grouting floors and walls subject to frequent cleaning, also with jet-vapour (gym and swimming pool changing rooms, mess-rooms etc.).
- Grouting terracotta floors or other types of tiles to be polished when installing.

## **TECHNICAL CHARACTERISTICS**

**Fugolastic** is a water dispersion of synthetic polymers, which when mixed with cement based products for grouting ceramic tiles (**Keracolor FF** or **GG**) endows them with the following properties:



# Fugolastic



Grouting an external klinker tile floor with Keracolor GG mixed with Fugolastic



Grouting glass mosaic with Keracolor FF mixed with Fugolastic



Terracotta floor polished in situ, grouted with Keracolor GG mixed with Fugolastic



Microphotograph of a cementitious matrix obtained by mixing Keracolor with water

- Improved compactness and greater resistance to abrasion.
- Optimal hydration of the cementitious binder and improved adhesion to the edges of the tiles.
- Less porosity (when comparing under an electronic microscope, photograph of grouts with **Keracolor** mixed with water and one mixed with **Fugolastic**, it can be observed that in the second photographs the needle-shaped cement crystals are covered with a polymer) and less absorption, consequently cleaning the grouts is easier.

**Fugolastic** can be mixed with all **Keracolor** colours without altering the colour, in fact it fixes the colours permanently.

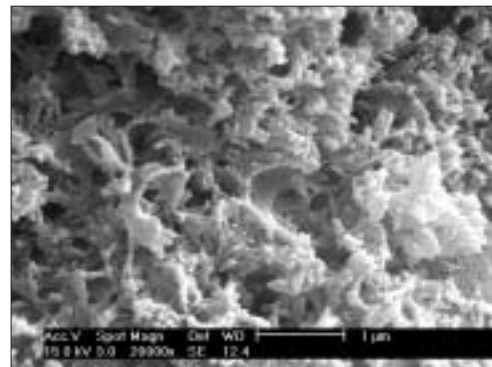
## RECOMMENDATIONS

- Never add water to the mixture of **Keracolor FF** or **GG** prepared with **Fugolastic**.
- Do not use too fluid mixtures to avoid the appearance of **Fugolastic** or colour over the surface.
- Do not use **Fugolastic** in the **Keracolor FF** or **GG** mixture for grouting terracotta floors, porous or rough surfaces. Make a sample test when grouting polished porcelain tiles, to verify its cleanability.
- The **Keracolor FF** or **GG** mixture with **Fugolastic** cannot be used for flexible expansion joints or subject to movement.

## APPLICATION PROCEDURE

Briefly shake **Fugolastic** before using. Pour into a clean container the needed amount and add **Keracolor FF** or **GG**.

Use 28-30 parts by weight of **Fugolastic** for 100 parts by weight of **Keracolor FF** or 18-20 parts by weight of **Fugolastic** for 100 parts by weight of **Keracolor GG**. The preparation, application, and finishing instructions for the grouts with **Keracolor FF** and **GG** are described in the relevant technical data sheets.



Microphotograph of a cementitious matrix obtained by mixing Keracolor and Fugolastic. Notice the more compact structure due to the presence of the polymer in the interstice.

## SET TO LIGHT FOOT TRAFFIC

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

## READY FOR USE

Surfaces are ready for use after 7-10 days. 7-10 days after grouting, basins and swimming pools can also be filled.

## Cleaning

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

## CONSUMPTION

The consumption of **Fugolastic** depends on the consumption of **Keracolor FF** or **GG** (see the relevant data sheets).

## PACKAGING

25-10-5 kg plastic drums.  
1 kg plastic bottles in packs of 12.

## STORAGE

**Fugolastic** can be stored at least 24 months in a dry place in original packaging.

Protect **Fugolastic** from frost during transportation and storage.

## 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.*

**All relevant references  
of the product are available  
upon request**

**TECHNICAL DATA (typical values)**

In compliance with:

- European prEN 13888 such as CG2
- American ANSI A118.6

**PRODUCT IDENTITY**

<b>Type:</b>	thin liquid
<b>Colour:</b>	white with green reflections
<b>Density (apparent) (g/cm<sup>3</sup>):</b>	1.0
<b>pH:</b>	8.1
<b>Brookfield viscosity (mPa·s):</b>	15
<b>Storage:</b>	24 months in original packaging. Protect from frost
<b>Hazard classification according to EEC 88/379:</b>	none
<b>Customs class:</b>	3903 90 00

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

<b>Mixed with:</b>	<b>Keracolor FF</b>	<b>Keracolor GG</b>
<b>Mixing ratio:</b>	28-30 : 100	18-20 : 100
<b>Consistency of mix:</b>	fluid paste	
<b>Density of mix (g/cm<sup>3</sup>):</b>	1.9-2.0	1.9-2.0
<b>pH of mix:</b>	approx. 12	approx. 12
<b>Pot life:</b>	approx. 2 hours	
<b>Application temperature:</b>	from +5°C to +35°C	
<b>Waiting time before finishing:</b>	10-20 minutes	
<b>Set to light foot traffic:</b>	24 hours	
<b>Ready for use:</b>	7-10 days	

**FINAL PERFORMANCES**

<b>Mixed with:</b>	<b>Keracolor FF</b>	<b>Keracolor GG</b>
<b>Flexural strength after 28 days (N/mm<sup>2</sup>) (prEN 12808-3):</b>	9.0	10.0
<b>Compressive strength after 28 days (N/mm<sup>2</sup>) (prEN 12808-3):</b>	30.0	33.0
<b>Flexural strength after freeze/thaw cycles (N/mm<sup>2</sup>) (prEN 12808-3):</b>	3.5	4.3
<b>Compressive strength after freeze/thaw cycles (N/mm<sup>2</sup>) (prEN 12808-3):</b>	35.0	40.0
<b>Resistance to abrasion (prEN 12808-2):</b>	500 (loss in N/mm <sup>3</sup> )	400 (loss in N/mm <sup>3</sup> )
<b>Shrinkage (mm/m) (prEN 12808-4):</b>	1.9	1.3
<b>Water absorption after 30' (g) (prEN 12808-5):</b>	1.2	0.4
<b>Water absorption after 240' (g) (prEN 12808-5):</b>	4.0	0.9
<b>Resistance to alkali:</b>	excellent	
<b>Resistance to oils:</b>	excellent (poor to vegetable oils)	
<b>Resistance to solvents:</b>	excellent	
<b>Resistance to acids:</b>	good if pH > 3	
<b>Temperature when in use:</b>	from -30°C to +80°C	



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



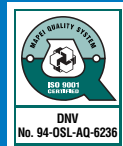
MAPEI S.p.A. - ITALY



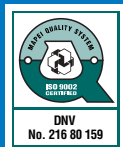
MAPEI FRANCE



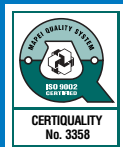
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