

# Fugakolor Design 0-6 mm

**NEW GENERATION MINERAL SEALANT WITH SMOOTH FINISH, HIGH WATER REPELLENCY, RESISTANT TO THE FORMATION OF MOULD AND BACTERIA, FREE OF EFFLORESCENCE, GUARANTEED FOR FLOOR AND WALL PLASTERING OF JOINTS BETWEEN CERAMIC TILES OF ALL TYPES, PORCELAIN STONEWARE, LARGE RECTIFIED SLABS, GLASS AND MARBLE MOSAICS, NATURAL STONES. FOR 0 TO 6 mm WIDE JOINTS - INTERIORS AND EXTERIORS.**



**TECHNICAL DATA SHEET - REV. 01/2022**

## DESCRIPTION

FUGAKOLOR DESIGN 0-6 mm is a new generation sealant made of hydraulic binders, selected mineral fillers, synthetic resins and special additives that give it high workability and excellent final mechanical strengths. Mixed with water, it transforms into a particularly smooth thixotropic product with excellent workability, thus ensuring easy filling of the joint and easy cleaning. After complete hardening, FUGAKOLOR DESIGN 0-6 mm is characterized by an extremely resistant, smooth surface finish with a "silk effect", water repellent with very low water absorption with a "drop effect", resistant to the formation of mould and bacteria and free from efflorescence. FUGAKOLOR DESIGN 0-6 mm comes in a wide range of homogeneous and stable colours over time to meet the most varied aesthetic and decorative needs.

**Conforms to European Standard EN 13888 - Class CG2WA · Improved cement (CG) sealant (2) with additional features of reduced water absorption (W) and high abrasion resistance (A).**

## FIELDS OF APPLICATION

FUGAKOLOR DESIGN 0-6 mm is used, indoors and outdoors, for sealing joints up to 6 mm wide between ceramic tiles of all types of floors and coatings, indoors and outdoors. Suitable for grouting porcelain and marbled stoneware, large rectified slabs, glass and marble mosaics, natural stone, marble, granite, mosaics in swimming pools and external facades. Whenever particular stress is expected on joints (such as in floors or coatings on boats) or in the case of grouting of pre-engraved material, mix FUGAKOLOR DESIGN 0-6 mm with the liquid polymeric additive GIUNTOLASTIC in total or partial replacement of the water mixture, checking in advance the cleanability of the surface.

## PREPARATION OF JOINTS

The joints can be sealed at least 24/36 hours after laying the floor and in any case verifying that the waiting times indicated in the technical data of the adhesive used have elapsed. In the case of floors laid with traditional mortar, wait for the product to dry completely (at least 10 days). An excess of residual moisture present between the joints can lead to different hardening times of the sealing filler, with the possible formation of whitish efflorescence or variations in the final colouration due to the appearance on the surface of soluble salts conveyed by the residual moisture of the substrate. The joints to be sealed must be cleaned of dust and adhesive or cement residues throughout the thickness of the coating, so as to have as uniform a depth as possible. Different thicknesses would result in different drying times with possible variation of the final colouring. Remove any spacers used for laying the coating.

On tiles with polished surfaces or microporous glazes, carry out a preliminary cleanability test on a small portion of the surface. Evenly moisten the joints before applying FUGAKOLOR DESIGN 0-6 mm, avoiding water stagnation, can

facilitate application and help increase mechanical strength. With regard to very porous tiles, with a thickness greater than 8 mm (water absorption greater than 10%), wet the joints well before applying the stucco.

## APPLICATION

When preparing the mixture, scrupulously comply with the dosages reported on the packages. An overdosage of water or fractional mixtures with different consistencies may cause uneven surface colouring.

Pour 3 kg of FUGAKOLOR DESIGN 0-6 mm into a clean container containing roughly 0.7 litres of clean water and mix with an electric mixer at low speeds, to avoid excessive air intake, until a homogeneous and lump-free paste is obtained. Allow the mixture to rest for a few minutes, stirring briefly before use. Apply the sealant with a smooth rubber spatula or hard rubber squeegee, compressing it inside the joints until they are completely filled, without leaving gaps or unevenness. To ensure a homogeneous finish, cool the excess filler by working diagonally with respect to the tiles. Wait for the surface of the stucco to become opaque before proceeding with the final cleaning. Adhering to cleaning times avoids the formation of whitish efflorescence. The waiting time required varies considerably depending on the environmental conditions, the type of material laid and the degree of absorption of the substrate (indicatively, the waiting time is at least 30 minutes with porcelain tiles at a temperature of 20 °C). Clean the grout residue with a large damp sponge washed frequently in clean water, working with rotary movements so as not to dig out the joints, avoiding creating stagnation of water above the fresh joints. This can also be done with a belt sponge machine. A slight residual veil of clean water on the surface can prevent possible colour variations. Once the product is well hardened, remove any remaining residue using an abrasive sponge, such as Scotch-Brite, or a dry cloth to remove traces of dust. In the event that the surface of the coating is still dirty due to an inadequate cleaning technique, it is possible to intervene with the descaling detergent PULINET, at least 10 days after sealing the joints. Warning: never use it on limestone or marble surfaces.

In the first 3 days after sealing the joints, protect the coating by preventing water from being deposited on the joints, even through condensation of ambient humidity.

## RESA

INDICATIVE YIELD (kg/m <sup>2</sup> )						
according to the size of the tiles, the thickness of the tiles and the width of the joints						
FORMAT (cm)	THICKNESS (mm)	JOINTS WIDTH (mm)				
		2	3	4	5	6
2 x 2	3	0,85	1,30	1,70	2,10	2,50
2,5 x 2,5	3	0,70	1,00	1,35	1,70	2,00
5 x 5	4	0,45	0,67	0,90	1,10	1,34
20 x 20	8	0,22	0,34	0,45	0,56	0,68
20 x 20	14	0,40	0,60	0,78	1,00	1,20
30 x 30	10	0,18	0,28	0,38	0,47	0,56
40 x 40	10	0,14	0,21	0,28	0,35	0,42
50 x 50	10	0,11	0,17	0,23	0,28	0,34
30 x 60	10	0,14	0,21	0,28	0,35	0,42
60 x 60	10	0,10	0,14	0,19	0,23	0,28
20 x 80	10	0,18	0,26	0,35	0,44	0,52
15 x 90	10	0,22	0,33	0,44	0,55	0,65
15 x 120	10	0,21	0,32	0,42	0,52	0,63
45 x 90	10	0,10	0,14	0,19	0,24	0,28
60 x 120	6	0,04	0,06	0,08	0,10	0,13
60 x 120	10	0,07	0,10	0,14	0,18	0,21
40 x 120	6	0,06	0,08	0,12	0,14	0,17
120 x 120	12	0,06	0,08	0,12	0,14	0,17

### FORMULA FOR CALCULATING SEALANT YIELD:

$$\left(\frac{A+B}{A \times B}\right) \times C \times D \times 1,4 = \frac{\text{kg}}{\text{m}^2}$$

Legend:

A and B = tile side dimensions (in mm)

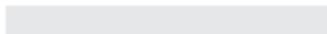
C = thickness of the tile (in mm)

D = width of the joint (in mm)

1.4 = specific weight of sealant in kg/dm<sup>3</sup>

## COLOUR CHART

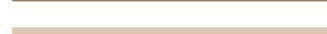
### MINIMAL LINE

	00 bianco
	07 silver
	06 manhattan
	25 grigio cemento
	26 antracite
	27 nero

### FASHION LINE

	14 terracotta
	13 azalea
	15 magnolia
	12 azzurro
	30 rosso

### WOOD LINE

	02 jasmin
	05 vaniglia
	09 bahama beige
	03 beige
	16 nocciola
	18 deserto
	22 caramel
	23 argilla
	28 testa di moro
	29 moka
	31 vulcano
	32 dune

N.B. The colours shown above are purely indicative and may have slightly different shades from the original ones of the product for printing reasons.

## RECOMMENDATIONS

- ◆ Do not use FUGAKOLOR DESIGN 0-6 mm for plastering floors and coatings in the food, pharmaceutical, hospital, canteen industries and in all cases where the regulations require sealing with antacid products or when high thermal resistance is required.
- ◆ Always adhere to the recommended mixing ratio, do not add excess water to the mixture to make the filler more fluid as this would greatly reduce the mechanical strength and the dry filling could be dusty and non-homogeneous in colour. Always make the mixtures with the same amount of water, so as to avoid differences in shades on the dry product.
- ◆ Always adhere to the indicated ageing times since early cleaning could cause the partial emptying of the joint, while an excessive delay would force to use abrasive means to remove the hardened filler, with the risk of damaging the surface of the coating.
- ◆ It is advisable to always carry out a preliminary test with an unglazed tile in order to verify its porosity and the difficulty of cleaning; if necessary, provide a protective treatment on the surface of the tiles.
- ◆ Do not use the product with a risk of frost in the following 48 hours.

## PACKAGING

FUGAKOLOR DESIGN 0-6mm comes in 3kg polyethylene bags in one-piece boxes. Store in a dry place and in the tightly closed original packaging. Under these conditions its stability is at least 24 months.

## SAFETY INSTRUCTIONS

The product contains cement which, when in contact with body sweat, produces an irritating and sensitizing alkaline reaction to the skin. Wear suitable clothing, gloves and protective goggles.  
For more information on the safe use of the product, refer to the relevant Safety Data Sheet.

## ITEM SPECIFICATIONS

Plastering of joints up to 6 mm in width between ceramic tiles of all types, porcelain and marbled stoneware, glass and marble mosaics, natural stones, by means of a mineral sealant with a smooth finish, highly workable and easy to clean, classified as CG2WA by the EN 13888 standard, such as **FUGAKOLOR DESIGN 0-6 mm** by COLMEF Srl.

## TECHNICAL DATA

<b>Compliant with the Standard:</b>	<b>EN 13888</b>
<b>Class:</b>	<b>CG2WA</b>
Appearance:	powder
Colour:	see colour chart
Mixing ratio:	~0.7 litres of water per 3 kg of powder
Specific weight of the mixture (kg/dm <sup>3</sup> ):	1.40
pH value:	≥ 11
Duration of mixture:	40 mins.
Execution of joints:	
- floor laid with adhesive	24/36 h
- floor laid with quick grip adhesive	3/6 h
- floor laid with traditional mortar	10 days
- coating laid with adhesive	6-8 h
Waiting time for cleaning:	~ 30 min. (depending on the absorption of the surface and the laid material)
Walkability:	24 h
Put into service:	7 days
Permissible application temperature:	from +5 °C to +35 °C
Operating Temperature:	-30 °C to +90 °C

## FINAL PERFORMANCE according to EN 13888 Class CG2WA

	<b>Results</b>	<b>Test method</b>
Compressive strength 28 days (N/mm <sup>2</sup> ):	≥ 15	EN 13888
Compressive strength after freeze-thaw cycles (N/mm <sup>2</sup> ):	≥ 15	EN 13888
Bending strength 28 days (N/mm <sup>2</sup> ):	≥ 2.5	EN 13888
Compressive strength after freeze-thaw cycles (N/mm <sup>2</sup> ):	≥ 2.5	EN 13888
Abrasion resistance (³mm):	≤ 1000	EN 13888
Water absorption after 30 min. (g):	≤ 2	EN 13888
Water absorption after 240 min. (g):	≤ 5	EN 13888
Resistance to humidity:	excellent	
Resistance to ageing:	excellent	

DATA DETECTION AT +23°C - 50% R.H. AND IN ABSENCE OF VENTILATION

The information in this bulletin is based on our best experience. We cannot be held liable for any product misuse. We therefore recommend anyone who intends to use this product to assess whether it is suitable for the intended application and to perform preliminary tests in any case. Always refer to the latest updated version of the technical data sheet available at [www.colmef.com](http://www.colmef.com).

**FOR MORE INFORMATION OR PARTICULAR USES, CONTACT THE COLMEF TECHNICAL SUPPORT DEPARTMENT.**

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