

## Licata Kolor

Polymer-modified cementitious grout specifically for grouting joints from 0 to 8 mm, class CG2WA according to UNI EN 13888, available in 22 shades.

**Licata Kolor** is a cementitious grout (CG) for joints, improved (2) with reduced water absorption (W) and high resistance to abrasion (A) in **class CG2WA** according to **UNI EN 13888**. Thanks to its specific formulation based on high-strength hydraulic binders, synthetic resins, natural pigments, selection aggregates and special additives aimed at improving the workability, it is ideal both for indoor and outdoor applications. Resulting from research by **Licata SpA labs**, it has a high binding strength and superficial mechanical resistance. Easy to use, **Licata Kolor** is ideal for grouting joints from 0 to 8 mm. UV stability, combined with a high resistance to fungal and mould attack are the added values to which the **Licata S.p.A. R&D team** have dedicated specific studies. **Licata Kolor** comes in 22 different shades.



### MAIN FIELDS OF USE

**Licata Kolor** is ideal for grouting joints ranging from 0 to 8 mm both indoors and outdoors, made of:

- Mosaiacs
- Marble or natural stone provided they are resistant to humidity, stains and efflorescence.
- Any type of ceramic (double-fired, single-fired, porcelain stoneware, clinker, terracotta, etc.), with low absorption, even in large formats,
- Swimming pools (mixed with **Licalatex**)

To apply to different substrates, please contact our technical department.

### CHARACTERISTICS

- Available in 22 shades
- Can be applied from 0 to 8 mm: **Licata Kolor**, can be used for grouting joints from 0 to 8 mm
- In class **CG2WA** according to **UNI EN 13888**: **Licata Kolor** is a cementitious grout (CG) for joints, improved (2) with reduced water absorption (W) and high resistance to abrasion (A) in **class CG2WA** according to **UNI EN 13888**
- Anti-fungal. **Licata Kolor** resists fungal and mould attacks.
- UV resistant: thanks to the presence of natural pigments stable under UV rays, **Licata Kolor** does not discolour even if continuously exposed to light.
- Good workability. The use of special additives and spherical quartz inert fillers with a constant particle size, makes **Licata Kolor** extremely smooth, simple to work and apply, effectively meeting all the application requirements of a construction site.
- High binding power. **Licata Kolor** is a polymer-modified grout. The binding values obtained after exposure to extreme conditions of frost, heat and chemical aggression are proof of its long-lasting reliability.
- High mechanical strength: The high-strength hydraulic binders and selected inert fillers with a constant particle size offer high mechanical strength (compressive and flexural strength and abrasion resistance).



## APPLICATION METHOD

### Preparation of substrate

Mechanically remove any flaking or easily detached parts. Thoroughly clean the application area so that it is free of dust, residue from surface treatments, such as detergents, oily substances, mineral or organic grease, wax, traces of chalk or salt. Before grouting, ensure that the mortar or adhesive are completely dry. Perform a cleaning test beforehand with porous materials or honed after laying. Materials with absorbent surfaces, such as terracotta, need to be treated beforehand with suitable waxes to prevent stains.

### Preparing the mixture

- *Vertical applications:*

You need 1.1-1.2 litres of clean water (UNI EN 1008) for every 5 kg bag (i.e. 22-24% density based on the colour).

- *Horizontal applications:*

You need 1.15-1.25 litres of clean water (UNI EN 1008) for every 5 kg bag (i.e. 23-25% density based on the colour).

Pour the product into a clean container with  $\frac{3}{4}$  of the mixing water. Mix for about 3 minutes with a low-speed mixer, gradually adding the remaining water until the you obtain a uniform, lump-free mixture. Leave to rest for about one minute and then, mix again briefly before using. Do not mix with other products or binders. Do not divide the packages up into partial mixtures.

If the product is stored in open, partially used sacks, it may not meet the technical characteristics outlined in this document.

### Application

Apply **Licata Kolor** with a rubber trowel within 30 minutes of mixing, taking care to remove any excess by first wiping against the direction of the joints. Make sure that the joints are filled without leaving any gaps or dips. If the grouting needs to be done in particularly difficult working conditions (heavy foot traffic or subjected to frequent washes, including pressure washes), in order to improve watertightness, we recommend adding **Licalatex** in a 5% - 10% ration compared to the weight of the powder.

In extreme weather conditions (strong wind, full sun, etc.), it is advisable to take precautions to prevent the product from drying too quickly, such as wetting the joints filled with **Licata Kolor** after a few hours. Floors can be walked on after about 24 hours and used after 3 days.

Make sure that the ambient temperature, that of the substrate and product during application is between +5 °C and +35 °C.

## PRODUCT INFORMATION

Appearance	Coloured powder
Particle size	<0.160 mm
Powder consumption	See Table 1
Mixing water	Approx. 22%-24% (vertical) Approx. 23%-25% (horizontal)
Workability time at 20 °C	≥30 minutes
Application thickness per coat	From 0 to 8 mm
Application temperature	From +5 °C to +35 °C
Foot traffic resistant	24/36 h
Usable	3 days
Storage	9 months in dry, protected place in unopened container at temperatures between +5 °C and +35 °C
Packaging	5 kg
Density	1150-1250 kg/dm <sup>3</sup>
pH of mixture	approx. 11

## PERFORMANCE

Characteristic	Test method	Legal requirement	Performance
Flexural strength after 28 days	UNI EN 12808-3	$\geq 3.5 \text{ N/mm}^2$	8 N/mm <sup>2</sup>
Compressive strength after 28 days	UNI EN 12808-3	$\geq 15 \text{ N/mm}^2$	32 N/mm <sup>2</sup>
Flexural strength after freeze-thaw cycles	UNI EN 12808-3	$\geq 3.5 \text{ N/mm}^2$	5.2 N/mm <sup>2</sup>
Compressive strength after freeze-thaw cycles	UNI EN 12808-3	$\geq 15 \text{ N/mm}^2$	31.6 N/mm <sup>2</sup>
Resistance to abrasion	UNI EN 12808-2	$< 1000 \text{ mm}^3$	522 mm <sup>3</sup>
Water absorption after 30'	UNI EN 12808-5	$\leq 2 \text{ gr}$	0.12 gr
Water absorption after 240'	UNI EN 12808-5	$\leq 5 \text{ gr}$	0.23 gr
Shrinkage	UNI EN 12808-4	2 mm/m	1.5 mm/m

**TABLE 1**

	Width in mm	Length in mm	Thickness in mm	Consumption kg/m <sup>2</sup> per mm of thickness
Mosaics	20	20	4	0.480
	50	50	4	0.192
	75	150	6	0.144
	100	100	6	0.144
	100	100	10	0.240
Tiles Marble	100	200	10	0.180
	200	200	8	0.096
	250	250	12	0.115
	300	300	10	0.080
	300	600	4.5	0.027
	330	330	10	0.073
	400	400	10	0.060
	600	600	3	0.012
	600	600	12	0.048
	600	1200	3	0.009



## WARNINGS

- Product for professional use.
- Do not add water or more powder to the product once mixed.
- Alkaline material: protect eyes and skin during application.
- After use, wash tools with water while the mixture is still fresh.
- The ambient temperature and humidity rate influence the workability, setting and drying times.
- Take care of the product's curing period for at least 24 hours after applying, protect the fresh mortar from rapid drying, direct sunlight, strong wind and heavy rain.

## SAFETY

Please consult the safety data sheet for information about product disposal, storage and usage.

## NOTES

This data sheet replaces and voids all previous versions.

The indications and specifications given in this document are based on our current technical and scientific knowledge. They should, however, be considered as purely indicative because we have no control over the conditions in which the product will be used. The purchaser must, therefore, check that the product is suitable for his specific requirements. Our sales and technical network guarantees rapid consultancy services and is at your disposal for any clarifications and questions you may have about the use and application of **Licata SpA** products.

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