



# PERMACOLOR®

DS-310-1024

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

**PERMACOLOR®**

## 2. MANUFACTURER

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## 3. PRODUCT DESCRIPTION

Rapid setting ultra-fine cement-based grout for joints of up to 10 mm in ceramic tiles, porcelain stoneware, mosaics and natural stone, water-repellent, flexible, fibre-reinforced, anti-mould.

Easy to apply and thixotropic, it is designed to ensure the greatest colour rendition and colour durability thanks to the exclusive patented *Water Dispersion Technology*, in residential, commercial and swimming pool usage on both walls and floors.

### Uses

- For use indoors, outdoors, submerged applications.
- For walls and floors.
- For joints of up to 10 mm in ceramic tiles, porcelain stoneware, glass and ceramic mosaics, clinker, marble, granite and natural stone.

- For residential and commercial use.
- For bathrooms, showers, kitchens, balconies, terraces, façades, flat roofs
- For swimming pools, fountains, damp places, saunas and spas.
- For heating and/or cooling floors and walls.

### Advantages

- Compact surface and smooth finish, specific for cured tiles.
- Low TVOC emissions (Emicode certified) — safe and easy to use.
- Reinforced with synthetic fibres - anti-cracking and anti-shrinkage.
- Thixotropic formula for walls and floors.
- Long pot life – from 45 to 60 minutes.
- Rapid setting, foot traffic at 3 hours.
- Uniform colour and high colour stability over time thanks to the exclusive *Water Dispersion Technology*.
- Requires no additional treatments – contains STONETECH® Sealer Technology
- Contains Microban® anti-microbial protection – mould resistant
- Compliant with ISO 13007-3 CG2 WA and EN 13888 CG2 WA requirements.
- Available in 30 LATICRETE® colours.

### Permitted backings

- Ceramic tiles
- Porcelain stoneware
- Glass and ceramic mosaics
- Glass tiles
- Marble, granite and natural stone
- Terracotta tiles

### Packages

Bag 2.5 kg / box 4 pieces

## Approximate consumption in kg/m<sup>2</sup> including wastage

Format cm	Thickness mm	Grout joint width (mm)			
		1	2	3	5
2 x 2	4	0,62	1,24	1,85	3,09
10 x 10	9	0,28	0,56	0,84	1,40
15 x 15	9	0,19	0,38	0,57	0,95
20 x 20	9	0,14	0,28	0,42	0,70
20 x 20	14	0,22	0,44	0,66	1,10
30 x 30	10	0,10	0,20	0,30	0,50
30 x 60	10	0,08	0,16	0,24	0,40
45 x 45	10	0,07	0,14	0,21	0,35
45 x 90	10	0,05	0,10	0,15	0,25
60 x 60	10	0,05	0,10	0,15	0,25
60 x 120	10	0,04	0,08	0,12	0,20
120 x 120	10	0,03	0,06	0,09	0,15
15 x 80	10	0,12	0,24	0,36	0,60
15 x 150	10	0,11	0,22	0,33	0,55
20 x 150	10	0,09	0,18	0,27	0,45
15 x 170	10	0,11	0,22	0,33	0,55
20 x 170	10	0,09	0,18	0,27	0,45
60 x 60	20	0,10	0,20	0,30	0,50
100 x 100	6	0,02	0,04	0,06	0,10
150 x 300	6	0,01	0,02	0,03	0,05

## Shelf life

Twenty-four (24) months in closed original packing raised off the ground in a cool, dry place.

## Limitations

- DO NOT use in areas exposed to aggressive chemicals.
- DO NOT use aggressive acids for cleaning.
- For grout joints that need to have high strength and resistance to chemical aggression, use LATICRETE® epoxy grouts to ensure stain resistant coloured grouting.
- The formulation is specific to limit the influence of the conditions of temperature and humidity during application; the conditions of the site can however affect the shade of the final colour of the grouting.
- Test in a small area to determine whether the shade of the colour is as desired.
- Some types of coating are more absorbent and can absorb the coloured pigment during grouting. Carry out a cleaning test before grouting the entire job.
- Protect the grouting from rain and frost until it has completely set (4-8 h).
- In submerged applications, leave the product to set for a time of no less than 14 days at 23°C before filling with water.
- Adhesives, sealing mortars and grouts for ceramic tiles and stone are not designed to replace waterproof membranes. When a waterproof barrier is needed, use a LATICRETE® waterproofing membrane.

## Attention

- For additional information please refer to the product safety data sheets.
- Contains sand and cement. Avoid contact with eyes and/or protracted exposure to skin. In the event of contact, wash carefully with water.
- Keep out of the reach of children
- DO NOT add water or other materials to the mixture so as not to irremediably jeopardise performance.
- Protect the grouting from dirt, construction debris or other contaminants for 7 days at 23°C.
- Do not use for filling expansion joints.

## 4. TECHNICAL DATA



## TVOC/LEED VOC Information

- This product has been certified for very low emissions of volatile organic compounds in accordance with the GEV Emission protocol.
- ÉMISSIONS DANS L'AIR INTÉRIEUR: A+

## Standard

- EN 13888 Class CG2 WA

## Physical properties

Contents	Hydraulic binders, mineral aggregates, additives, pigments
Colour:	See colour chart
Density (ISO 1183):	~ 1.200 kg/dm <sup>3</sup>
Maximum grain size:	~ 0.150 mm
Flammability:	No
Classification EN 13888:	CG2 WA

## Processing characteristics

Mixture ratio in weight:	27-29% (0.675-0.725   bag 2.5 kg)
Density (ISO 1183)	~1.800 kg/dm <sup>3</sup>
Application temperature	From +5°C to +35°C
Pot life of the mixture:	~45 min.
Foot traffic / Light transibility:	~3 hours
Service time:	7 days (10 days for tubs and swimming pools)
Working temperature:	From -30°C to +90°C

(23°C, 50% R.H.)

These technical data were measured in standard laboratory conditions and may be subject to change without notice. The actual performance of the product depends on the applicative conditions of the site, the method of installation used and the type of coating.

## 5. APPLICATION

Pot life is affected by many variables including: mix consistency, temperature of the surfaces and of the ambient. Warm temperatures will shorten it, while colder temperatures will lengthen it. Do not add water or any other materials to the mixture as they have a negative effect on the product and nullify all its features.

### Preparing the backings

Make sure that the surfaces to be grouted have no remains of the previous work, cement, powder, etc. The joints between tiles must have no dust, debris or remains of adhesive and be dry; if you do not remove these materials they can jeopardise the aesthetics of the grouting. Clean with a moist sponge. Leave no water in the joints. Using surface protectors before grouting can help final cleaning. Protect the surfaces from strong sunlight, draughts of air, strong wind and high relative humidity. The temperature of the backing must be between 5°C and 35°C.

### Preparing the product

Mix thoroughly with a mixer on low speed (<300 RPM) and a mixing paddle for approximately 1 minute. Scrape the bottom of the bucket with a trowel and the inside of the bucket to incorporate any traces of unmixed product; mix for another 30 seconds to obtain a mixture with a homogeneous colour and consistency. Apply immediately.

## Application

Apply with a rubber trowel of medium hardness and from the edges with a sharp corner. Apply diagonally to the joints, making sure to fill them completely. Using the sharp corner of the trowel, remove the grout from the surface of the tiles by holding the trowel at an angle of 90° like a squeegee, always making diagonal passes in relation to the joints.

## Cleaning

Wait for the grout to be touch dry and proceed with the final cleaning of the surface of the tile using a moist sponge and rinsing it frequently. Cleaning must be done completely. Any rings can be removed the day after with a dry cloth.

Cleaning too soon, when the grout is still moist and soft, will remove part of the product from the grout joints and will cause colour rippling.

Wait 3 hours after grouting before putting the grouted flooring into service.

If the grout has thickened too much on the surface of the tile, in order to help remove it you should start with a moist abrasive felt pad before cleaning with the moist sponge. If, after inadequate cleaning, the surface has remains of grout or heavy ringing, it is possible to use STONETECH® cleaner to remove the traces of grout from the tiles.

Tools are cleaned of fresh product by simply washing with water.

## 6. AVAILABILITY AND COSTS

### Availability

LATICRETE® products are available worldwide. To know the name of your nearest dealer, contact LATICRETE EUROPE S.r.l.

+39 059 535540

[info@laticreteurope.com](mailto:info@laticreteurope.com)

[www.laticrete.eu](http://www.laticrete.eu)

### Costs

Contact your nearest LATICRETE EUROPE S.r.l. product dealer to obtain full information about the costs.

## 7. WARRANTY

The vendor guarantees that the product will not deteriorate under normal conditions of use. Warranty is valid for one (1) year. Contact Technical Services for additional information.

## DOCUMENTATION:

- DS 230.3EU: 1 year of product warranty
- DS 230.10EU: 5-10-15 years of product system warranty

## 8. MAINTENANCE

LATICRETE® and LATAPOXY® products are high-quality products designed to make long-lasting, maintenance-free installations. The duration and performance strictly depend on the type of products used for cleaning.

## 9. TECHNICAL SERVICES

### Technical support

For information, contact Technical Service:

+39 059 535540

[technicalservices@laticreteurope.com](mailto:technicalservices@laticreteurope.com)

### Technical and safety related literature

To obtain technical and safety related literature, visit our website: [www.laticrete.eu](http://www.laticrete.eu).

### Warnings

The information and instructions given in this Technical Data Sheet, although based on knowledge acquired over years of applications, are to be considered merely as a guide. LATICRETE®, not being able to control the product installation conditions and application methods directly, cannot be held liable for anything deriving from their installation. Anyone wishing to use LATICRETE® products must perform appropriate site tests to determine suitability for the intended use.

Our products are covered by warranty within the limits of our general conditions of sale and within the limits of the correspondence of our products with the technical specifications and applicable certifications, as explicitly stated on the technical data sheets or in the applicable technical documentation expressly supplied by us with the products themselves.

## 10. DOCUMENTATION

Further information about the product is available on our website [laticrete.eu](http://laticrete.eu).