

# Pronto Porfido

**MINERAL MORTAR FOR GROUTING PORPHYRY OR NATURAL STONE FLOORS, FIBRE-REINFORCED, WITH FLUID CONSISTENCY, COMPENSATED SHRINKAGE AND LOW WATER ABSORPTION.**



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

## DESCRIPTION

PRONTO PORFIDO is a fibre-reinforced, controlled-shrinkage mineral mortar composed of high-strength hydraulic binders, siliceous aggregates and special additives. When mixed with water, it turns into a mortar with a fluid consistency that is easy to work, and can also be applied in large thicknesses. It has excellent mechanical strength and very good resistance to abrasion. Low water absorption gives it high resistance to freeze/thaw cycles and excellent durability. With PRONTO PORFIDO, processing times are considerably shorter than with conventional grouting systems.

**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

PRONTO PORFIDO is used for internal and external grouting of joints in porphyry or natural and artificial stone pavings and flagstones, including those subject to vehicular traffic, such as car parks, tracks, bicycle or pedestrian crossings and green areas.

## PREPARATION OF JOINTS

The foundations must be solid and consistent, designed and constructed according to the intended use, assessing the stresses that the construction will have to withstand. For a homogenous finish to avoid colour variations, make sure that the adhesive or mortar used for laying is completely dry before starting the grouting operations. The joints must be clean, dust-free and hollow for at least two-thirds of the thickness of the installed material. At high temperatures and on particularly dry substrates, it is advisable to moisten the joints with clean water avoiding residual stagnation before applying the product. Respect expansion joints in the flooring. For large areas, always provide fraction joints, especially where there are changes in slope, where there are seams in the substrate, where there are channels and manholes.

## APPLICATION

To prepare the mixture, mix a 25 kg sack of PRONTO PORFIDO with 3.5-4 litres of clean water and mix in a concrete mixer or with a mechanical mixer until a homogeneous, lump-free mixture is obtained. Prepare an amount product to be applied within 1 hour. It is advisable to use a low-speed mixer to avoid incorporating an excessive amount of air. Let the mixture rest for a few minutes, remixing briefly before use. Pour the product directly into the joints, using the spouted container with the help of a spatula or trowel to distribute it evenly. Remove excess with trowel so as not to excessively soil the paving stones. When the mixture loses its plasticity and is sufficiently hardened, finish and clean with a damp sponge or vegetable fibre brush depending on the degree of finish required. Final cleaning of the surface can be carried out with a mechanical scrubber with a suitable abrasive sponge disc. Unfavourable climatic conditions

such as low temperatures, beating sun or excessive ventilation can significantly influence processing times, lengthening or drastically shortening them. The pavement is walkable after about 24 hours and driveable after at least 7 days.

## YIELD

1.9 kg/l of cavity to be filled. 6 to 15 kg/m<sup>2</sup> depending on the width of the joints.

## RECOMMENDATIONS

- ◆ Always adhere to the recommended mixing ratio, do not add excess water to the mixture to make the grout more fluid, as this would significantly reduce the mechanical strength and the dry grout could be dusty and unevenly coloured. Always make the mixtures with the same amount of water to avoid differences in shade of the dry product.
- ◆ Protect the covering from rain and wash-out or direct sunlight, until the product is fully hardened.
- ◆ The possible occurrence of efflorescence can be caused by residual moisture in the bedding mortar used for laying or by the substrate not being completely dry or not protected from rising damp.

## PACKAGING

PRONTO PORFIDO is available in 25 kg polyethylene coated paper bags on 1500 kg pallets. Store the product in a dry place and in its original packaging, well closed. In these conditions its stability lasts at least 12 months.

## SAFETY INSTRUCTIONS

The product contains cement that, in contact with body perspiration, produces an irritant alkaline and sensitising reaction for the skin. Use suitable clothing, gloves and protective glasses.

Refer to the respective Safety Data Sheet for more information about how to use the product safely.

## ITEM SPECIFICATIONS

Filling and grouting of joints in pavings or flagstones made with porphyry or natural stone using mineral mortar with fluid consistency, fibre-reinforced, with compensated shrinkage and low water absorption, classified as CG2WA by Standard EN 13888, type **PRONTO PORFIDO** by Colmef Srl.

## TECHNICAL DATA

<b>Compliant with Standard:</b>	<b>EN 13888</b>
<b>Class:</b>	<b>CG2WA</b>
Appearance:	powder
Colour:	Cement grey
Mixing ratio:	~ 3.5-4 litres of water per 25 kg of powder
Mixture pot life:	~ 1 h
Setting start time:	≤ 1 h
Setting end time:	≤ 2 h
Walkability:	24 h
Commissioning:	7 days
Allowed application temperature:	from +5 °C to +35 °C
Operating temperature:	from -30 °C to +80 °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 (mm <sup>3</sup> ):	≤ 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.**

**COLMEF SRL | Z.I. Ponte d'Assi | 06024 - Gubbio (PG) ITALY | Tel. +39 075923561 | [info@colmef.com](mailto:info@colmef.com) | [www.colmef.com](http://www.colmef.com)**