



## GRIGOKOLL® VELOX



**Premixed adhesive with high performance, fast gluing, flexible and deformable, null vertical glide, for the installation of natural stones, any kind of stoneware, ceramic tiles and mosaic, with a thickness of 5 mm. Class C2FT S1.**

### Product description

GRIGOKOLL® VELOX is a mono component dry premixed adhesive based on selected inerts, white or gray hydraulic binder and special additives classified by UNI EN 12004 norm. Premixed adhesive (C), improved (2), glide resistant (T), fast (F) and deformable (S1).

### Fields of use

GRIGOKOLL® VELOX is an extra white and grey flexible adhesive with rapid hydration, mixed binder, very high performance, workability and yield for laying of ceramic tiles and mosaics of any type and size, and stones sensitive to stains but stable to water. It is particularly suitable for heating and cooling screeds, swimming pools and industrial floors. It is possible to realize thicknesses up to 15 mm both indoors and outdoors.

GRIGOKOLL® VELOX is suitable for application indoors and outdoors on any type of substrate and cement plaster normally used in construction, even if these are subject to dimensional variations (heating screeds).

Suitable for the laying of stone materials not particularly sensitive to humidity. In case of light colored stones better use GRIGOKOLL® VELOX White.

It may be also used for laying directly on top of old ceramic pavements.

For the installation of big slabs on the external façade, on not yet dried concrete walls or on heating screeds, mix the product with elasticizing latex GRIGOKOLL® MIX S2.

The supports shall not be excessively absorbent. For laying on plasterboard walls, we recommend the correct preparation of the support, with the application of BASEFORTE® PRIMER IDROX.

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## Surface preparation

Installation areas must be free from dust and dirt. Any trace of oils, fats, waxes, etc. must first be removed mechanically or with detergents, as well as any inconsistent or brittle parts. In any case install on well dry screed coats (>28 days), unless fast drying underlays such as BASEFORTE® MIXCEM PRONTO or others have been used, packed with BASEFORTE® LR 30.

Always check the characteristics of the support before laying. They must comply with the UNI 11493-1 standard.

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## Preparation of the dough

Prepare the dough by adding about 8 liters of clean water to each 25 kg bag of GRIGOKOLL® VELOX and mix with mechanical stirrer to obtain a homogeneous mixture free of lumps, workable for about 60 minutes. Leave the dough laying for 5 minutes, stir again and apply.

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## Application

Apply as usual with the toothed spatula in the appropriate thickness, according to the type of tiles to apply. If the surface on which to apply the tiles, as well as the tiles are too hot due to temperature heat, spray some water to cool them down. The tiles are applied with a slight pressure, tapping thoroughly so that the entire surface of the tiles come in perfect contact with the adhesive. Any rearranging of the tiles must be done within 10-15 minutes after laying. In case of insufficient glue application, do not soak it but add more with the toothed spatula.

For bonding tiles outdoors or for polished pavements, the bonding must be performed with a double coating system.

The installation must always be carried out in compliance with the UNI 11493 standard.

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## Supply and storage

GRIGOKOLL® VELOX is supplied in bags on stretch pallets.

Stock in cool, dry and ventilation free place. Keep packaging intact. Use before the expiry date stamped on the bag.

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## Specifications

Ceramic tiles of any type and stone materials, even of light colour, not particularly sensitive to humidity, should be glued with the flexible gray-white powder adhesive for interior and exterior GRIGOKOLL® VELOX from Fornaci Calce Grigolin, a product based on gray-white hydraulic binder, selected sands, resins and special additives aimed at improving workability and grip, at a rate of 2,5-5 kg/m<sup>2</sup>. The areas of installation should be clean and stable. Use a toothed spatula for the setting, making sure to respect or create deformation joints.

For bonding the tiles outdoor and for polished pavements, the bonding must be performed with a double coating system.

The installation must always be carried out in compliance with the UNI 11493 standard.

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## Disclaimers

Do not mix GRIGOKOLL® VELOX with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying. GRIGOKOLL® VELOX should not be used with temperatures below +5°C or above +30°C. Data are referring to norm EN 12004, at a temperature of +23°C, 50% relative humidity and no ventilation.

GRIGOKOLL® VELOX is a fast-acting product, the application conditions (temperature, absorption of the support, flying sun) can reduce the open time, do not under any circumstances add water to the product during firming to lengthen the application time.

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The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

| TECHNICAL DATA                                     | PERFORMANCE   | STANDARD |
|--|---|----------|
| Classification                                     | C2FT S1   | EN 12004 |
| Powder specific weight                             | 1200 kg/m <sup>3</sup> determined in free fall      |          |
| Mixture specific weight                            | 1500 kg/m <sup>3</sup>                              |          |
| Density of cured adhesive                          | 1350 kg/m <sup>3</sup>                              |          |
| Particle size                                      | < 0,5 mm  |          |
| Water in the mix                                   | ca. 8 lt/bag  |          |
| Consumption  | 2,5-5 kg/m <sup>2</sup>                             |          |
| pH   | > 12  |          |
| Time for effect                                    | 24 hrs.   |          |
| Time to wait before sealing joints                 | approx. 4-6 hrs. on floor<br>approx. 2 hrs. on wall |          |
| Pot life after mixing                              | approx. 60 min.                                     |          |
| Open time  | approx. 15 min.                                     |          |
| Registration time                                  | approx. 30 min.                                     |          |
| Operating temperature                              | between -30°C and +90°C                             |          |
| Set to light foot traffic                          | 6 hrs.  |          |
| Mechanical resistance to flexion after 28 days     | > 5 N/mm <sup>2</sup>                               |          |
| Mechanical resistance to compression after 28 days | > 12 N/mm <sup>2</sup>                              |          |

| TECHNICAL DATA   | PERFORMANCE             | MINIMUM REQUIREMENT   | STANDARD   |
|--|-------------------------|-----------------------|------------|
| Adherence to initial traction                          | > 2,7 N/mm <sup>2</sup> | > 1 N/mm <sup>2</sup> | EN 12004-2 |
| Adherence to traction after water immersion            | > 1,3 N/mm <sup>2</sup> | > 1 N/mm <sup>2</sup> | EN 12004-2 |
| Adherence to traction after heat action                | > 2,3 N/mm <sup>2</sup> | > 1 N/mm <sup>2</sup> | EN 12004-2 |
| Adherence to traction after cycles of freezing/melting | > 2,2 N/mm <sup>2</sup> | > 1 N/mm <sup>2</sup> | EN 12004-2 |

Data are reported according to UNI EN 12004, at +23°C temperature and 50% H. R. in the absence of ventilation.

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