

# C2 Grigio

Gray cementitious adhesive, in powder, exhibiting improved performance, no vertical slip and extended open time. Suitable for indoor and outdoor application porcelain stoneware tiles on walls and floors, ceramic tiles of all types, natural and agglomerated stones.



EXTENDED OPEN TIME



FOR INTERNAL AND EXTERNAL USE



PRODUCT SINGLE COMPONENT



UNI EN 12004

C2TE EN 12004

SiO<sub>2</sub> 60

AGGREGATI SILICEI



RICICLO CATEGORIA R5



IDONEO PER PAVIMENTAZIONI RADIANTI



IDONEO ALLA SOVRAPPOSIZIONE

43 Product code



## Technical features

Bonding strenght 28 days UNI EN 1348 8.2	<b>2.0 MPa</b>	Open time at 40' UNI EN 1348	<b>1.2 MPa</b>
Bonding strenght after immersion in water UNI EN 1348 8.3	<b>2.3 MPa</b>	Vertical slip	<b>ABSENT</b>
Bonding strenght after heat UNI EN 1348 8.4	<b>1.6 MPa</b>	Foot traffic	<b>24-48 h</b>
Bonding strenght after freeze/thaw cycle UNI EN 1348 8.5	<b>1.8 MPa</b>	Maximum thickness	<b>8 mm</b>
Open time at 20' UNI EN 1348	<b>1.5 MPa</b>	Fire reaction class UNI EN 13501-1	<b>A1</b>
Open time at 30' UNI EN 1348	<b>1.3 MPa</b>		

## Description

C2 Grigio by Tradimalt is a gray cementitious adhesive, in powder, exhibiting improved performances, no vertical slip and extended open time. Suitable for indoor and outdoor application on porcelain tiles on walls and floors, ceramic tiles of all types, natural and agglomerated stones. In the production of the line Collanti, Tradimalt S.p.A. has chosen to research the specificity of every single product, fulfilling the laying and adhesion needs

of any type of tile or floor (stoneware, marble, ceramics) and of the different substrate. The products are subjected to the most accurate verifications by prestigious external laboratories, necessary for obtaining and maintaining the CE marking and the achievement of the European classifications, according to the specific requirements of use.

## Physical features

Packaging	<b>25 kg</b>
Form	<b>powder</b>
Apparent volumetric mass	<b>1300 kg/m<sup>3</sup></b>
Mixing water	<b>27-29%</b>

Fresh mortar specific weight	<b>1500 kg/m<sup>3</sup></b>
Maximum aggregate size	<b>≤ 0.6 mm</b>
Application temperature	<b>+5°C/+35°C</b>
Storage	<b>In unopened packaging and away from moisture for a maximum duration of 12 months.</b>

## Application fields

Tradicol C2 is a powder adhesive compliant with the requirements of the standard UNI 11493 - *Floor and wall ceramic tiling* - and it is suitable for the laying of:

- any type of ceramic tiles;
- porcelain stoneware flooring;
- underthickness tiles;
- natural stones;
- clinker.

Tradicol C2 can be applied on base coats such as:

- cementitious screeds;
- sulphate-based screeds;
- concrete;
- existing flooring;
- under-floor heating system;
- waterproofing cementitious membrane for waterproofing;
- cementitious plaster.

## Surface preparation

The substrate must be free from dust, free of loose and inconsistent parts. The coat surface must be sufficiently dry to be

able to receive the laying of the adhesive. Fill any unevenness with a leveling coat or a self-leveling screed.

## Product preparation

Pour about  $\frac{3}{4}$  of the required water into a clean container (as specified in the *physical features* table). Gradually add the powder adhesive and stir repeatedly with a paddle mixer, pour water until a smooth, lump-free paste is obtained. Let rest for

about 5 minutes to allow all the components to melt.

## Product application

Apply a very thin first layer using the smooth part of the trowel, strongly pressing on the substrate. Apply the adhesive on the flat side with a toothed trowel suitable to the tile back format and features, adjusting the thickness and the trowel angle. Apply the amount of adhesive on a surface such as to allow the

laying of the tiles within the open time limit. Press and strike the tiles to allow a uniform distribution of the adhesive on the surface.

### **Siliceous aggregates**

C2 Grigio consists of silica sand grains. This aggregate possesses high hardness, poor reactivity to acid attack and, above all, a low water absorption. These properties translate into the creation of a product that can be easily applied even with modest quantities of mixing water, offering lower shrinkage and

higher mechanical features, which translates into greater durability of the work carried out.

Its consistent granulometric curve allows to obtain an excellent level of breathability of the hardened product.

### **Dispersible polymer powder**

C2 Bianco has in its formulation (dispersible polymer powder) that are activated on contact with the mixing water creating an intimate bond between the cement mortar, the substrate

and the tiles. The effects are: better workability and increase of adhesion strenght.

### **Item specifications**

Laying of internal and external floor and wall, porcelain stoneware, marble, any ceramic flooring, natural stones, even for over-tiling, up to 8 mm thick, with a powder adhesive, to be mixed with water only, such as Tradicoll C2 Bianco by Tradimalt

S.p.A., made of Portland cement, marble powder, specific additives and synthetic resins.

Consumption 3.0-4.0 kg/m<sup>2</sup>

Adhesion at 28 days 2.1 MPa.

**TRADIMALT S.p.A.**

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D-CPR-13-07

**UNI EN 12004  
Tradicoll C2 Grigio**

*Type C2 cementitious adhesive according to EN 12004*

Initial traction adhesion: >1.0 N/mm<sup>2</sup>

Traction adhesion after immersion in water: >1.0 N/mm<sup>2</sup>

Traction adhesion after thermal aging: >1.0 N/mm<sup>2</sup>

Traction adhesion after freeze/thaw cycle: >1.0 N/mm<sup>2</sup>



Tradimalt, in its information and technical-commercial materials, provides data on the composition of each product and a few key production characteristics. Thus, the focus is on supply chain transparency, not required by any applicable law, but that

Tradimalt intends to offer its customers to emphasize the quality of the raw materials, as well as the product, in addition to the "safety" that the company intends to express in matters of formulations.

## Raw materials contained within the product

Selected raw materials:

- Siliceous aggregates (0 to 0.6 mm) with high hardness and low water absorption;
- Cements, Portland type I cement from Italian cement plants;
- Organic co-binder, vinyl acetate- and ethylene-based co-polymers, dispersed in powder that improve the adhesion and the deformability of the adhesive;
- Water retainer, highly modified cellulose ether that improves performances in terms of the extended open time, high slip resistance, thixotrophy and thermal resistance.  
Recyclable product at the end of its shelf life.

## Warnings

- Do not apply on wood or wood surfaces.
- Do not apply on rubber.
- Do not apply on PVC.
- Do not apply on marble slabs and stones subject to efflorescence.
- Do not add aggregates or binders to the product.
- Exposure to the sun or strong ventilation greatly modify the surface glazing times.
- Application temperature range +5°C to +35°C.
- Store the product in unopened packaging and away from moisture for a maximum duration of 12 months.

The technical-practical information in the technical data sheet is the result of our most accurate and detailed scientific research and field experiences. However, since it is not possible to intervene directly on the site conditions and on the execution of the works, this information is to be considered purely indicative and, therefore, not binding either legally or otherwise in relation to third parties. This information does not exempt the end user from their responsibility to test our products in order to ascertain their suitability for their intended use. Therefore, we strongly recommend the customer/applicator to carry out appropriate preventive tests with Tradimalt products so that their suitability can be ascertained.