

## F.55 Cermarmo

Ultra-white deformable fast-setting single-component quartz adhesive based on mixed binders and special additives.

No vertical slip.

Obtainable thickness: 20 mm.

For floors and walls, indoors and outdoors.

PROFESSIONAL USE.



### SUITABLE APPLICATIONS

#### For the laying of:

- natural stones;
- pale marbles such as Bianco Carrara, Bianco Cristallino, Thassos, Rosa Portogallo etc..., provided that they are not subject to significant deformation from absorbing water (consult our Technical Assistance Service if in doubt);
- vitreous mosaic and all types of ceramic tiles including klinker and porcelain, also large in size;
- all types of tiles overlaying existing floors;
- cotto, marble, natural and recomposed stones provided they are dimensionally stable;
- for smoothing on the rear face of marble before laying to provide further protection against the formation of stains.

#### Suitable substrates:

- cement-based screeds and plasters, hammered or bush-hammered concrete, cellular concrete;
- cured concrete slabs;
- self-levelling cement-based screeds;
- heated screeds, existing ceramic floors;
- anhydrite screeds previously sanded and treated with F.28/G APPRETTO;
- industrial environments also subject to heavy traffic, terraces and balconies;
- commercial environments (supermarkets, offices ...);
- large surfaces in general (shopping centres, airports, etc...);
- quick laying in basins and swimming pools;
- smoothings and quick repairs of cement-based substrates even in industrial environments;
- panels in cork or expanded polyurethane or plasterboard (free from dust), also with waterproofing treatment as long as they are rigidly fixed;
- plywood and floorboards, provided they are firmly fixed;- gypsum or scagliola, previously treated with F.28/G APPRETTO;
- waterproofing cement-based and acrylic mortars such as F.72 ELASTOMALTA or F.26 ELASTOGUAINA.

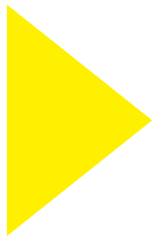
#### Notes:

- interior substrates composed of: floors in PVC, linoleum, residues of adhesives for resilient floors as long as they bond well, epoxy varnishes and parquet (roughened), cold asphalt and bitumen membranes: treat prior to laying with HAFTPRIMER S applied with a roller.

### UNSUITABLE APPLICATIONS

Do not use in the following cases:

- on metal untreated surfaces;
- on wood, blockboard, plywood or derivatives, panels, if subject to strong movements;
- on uncured substrates or those subject to strong shrinkage.



## SUBSTRATES

The surface must be flat, sound, solid, dry, stable (shrinkage from ageing completed) and free from dust, crumbly parts, oils, grease, form release agents, waxes, varnishes and anything else which can prevent good adhesion.

If laying in high temperatures, lightly wet the substrate. If laying over old existing flooring, clean with a solution of water and caustic soda to 10%, or alternatively use F.80 SGRASSANTE. Gypsum-based substrates must be completely dry (max. residual moisture 0,5%), cured and previously treated with F.28/G APPRETTO. Any cracks must be sealed with F.76 M.E.C. or with F.48 POXYCEM or F.49 POXYRAPID (two-component structural adhesives).

## PREPARATION OF THE MIX

Mix with clean water. Add the powder slowly to the water. Mix carefully with a low-speed electric drill with a helical mixer (F.97) until you obtain a homogeneous mortar free from lumps. Leave the mix to rest for 5 minutes and then briefly remix.

## APPLICATION

Apply the adhesive with a suitable notched trowel (F.91/2 or F.91/4). For laying tiles on external surfaces, with the flat side of the notched trowel spread a layer of adhesive also on the rear face of the slabs to be laid (back-buttering) to avoid the formation of hazardous empty cavities between the tiles and the adhesive mortar. During the laying, check that an anti-adhesive film (skin) does not form, and if this occurs, re-spread the adhesive in order to break the superficial film.

## WARNINGS

Remove any dust from the back of the tiles.  
Apply the tiles using appropriate pressure; regularly check that the back of the materials to be laid is covered with adhesive at least for a 70-80% of their surface.  
Protect the laid surface from rain and washout for at least 24 hours and also from direct sunlight or frost for at least one week.

## COVERAGE

Notched trowel (mm)	8x8	10x10	15 mm
Kg/m <sup>2</sup>	4	5	7

For smoothing: approx. 1.3 Kg/m<sup>2</sup> per mm of thickness.

## GROUTING OF JOINTS AND SEALING OF EXPANSION JOINTS

After 3/4 hours to floors and after 2/3 hours to walls. The grouting of the joints can be carried out using CERCOL's cement-based and epoxy grouts, available in different colours. The sealing of expansion joints can be performed using the appropriate silicone and epoxy-PU sealants from the CERCOL's range.

## CLEANING

Wash hands and equipment with water before setting. Afterwards use F.80 CERNET (acid detergent), undiluted or diluted with water, or clean mechanically.

## PACKAGING

20 kg bags on pallets.

## SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

F.55 CERMARMO contains cement which, if in contact with perspiration or other body fluids, will produce an irritant alkaline reaction. Wear gloves and safety goggles.  
For further and complete information, it is recommended to refer to the latest version of the safety data sheet.

## TECHNICAL DATA

<b>Classification according to EN 12004 (ISO 13007-1)</b>	<b>C2FT S1</b>	
Transverse deformation	≥ 2,5 mm	EN 12002
Appearance	White premixed	
Hazard classification (directive 1999/45/CE)	Irritant (for further information see safety data sheet)	
Mixing ratio	27%	
Volumic mass of mix	1500 Kg/m <sup>3</sup>	
Application temperature range	from +5°C to +35°C	
Vertical slip	≤ 0,5 mm	EN 1308
*Open time	10 min.	EN 1346
*Pot life	≥ 40 min.	
*Walk-over time	3/4 hours	
*Grouting	Floors after 3/4 hours, walls after 2/3 hours	
*Ready for use	12 hours	
*Final hardening	3-4 days	
Thermal resistance	from -30°C to +90°C	
<b>EMICODE</b>	<b>EC1 R - very low emission</b>	
VOCs (Rule # 1168 of California's SCQAMD) USGBC – LEED U.S.	0 g/L	
Storage	12 months in original packaging in a dry place	
<b>PRODUCT CONFORMS TO THE SPECIFICATIONS ESTABLISHED BY REG. (CE) NO. 1907/2006 (REACH) - ANNEX XVII, ITEM 47</b>		

\*Data obtained at +23°C and 50% Relative Humidity.

## FINAL PERFORMANCE

Initial bonding after 6 hours	≥ 0,8 N/mm <sup>2</sup>	EN 1348
Initial bonding after 28 days	≥ 2,0 N/mm <sup>2</sup>	EN 1348
Bonding after heat exposure	≥ 2,0 N/mm <sup>2</sup>	EN 1348
Bonding after immersion in water	≥ 1,3 N/mm <sup>2</sup>	EN 1348
Bonding after freeze-thaw cycles	≥ 1,3 N/mm <sup>2</sup>	EN 1348

## LEED® SCORE - GBC ITALIA

LEED® SCORE SUPPORT*	LEED® SCORE
MR Credit 5 – Regional Materials	up to 2
QI Credit 5 – Materials with low emissions	up to 1

\* LEED is a measurement system for environmental performance intended for commercial, institutional and residential buildings, based on environmental and energy standards, commonly recognized and accepted by the international scientific community. To conform to LEED's evaluation system of building sustainability is a voluntary choice made by a company. The reference to calculate the score is given by the requirements contained in the LEED Italia Manual "Nuove Costruzioni e Ristrutturazioni" ("New Buildings and Reconstructions") - Ed. 2011 - © 2010, Green Building Council Italia, U.S. Green Building Council, all rights reserved.

## SPECIFICATIONS

Floors and walls in ceramics, natural stone or pale marble with tendencies to stain, on cement-based substrates, heated screeds, or existing floors and walls, must be laid with a fast-setting single-component quartz deformable adhesive based on mixed binders and special additives, which conforms to the norm EN 12004 class C2FTS1, such as F.55 CERMARMO by CERCOL Spa.

This technical data sheet is based on the knowledge acquired from our experience. We reserve the right to modify the data contained herein as a result of improvements and technical progress. Considering the different materials and diverse working techniques, which are outside of our control, we cannot accept any responsibility for the use of these instructions. We therefore recommend undertaking sufficient test applications and consulting our Technical Assistance service.

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