

CERMIGRES

CEMENT-BASED HIGH PERFORMANCE, EXTENDED WORKING TIME, NO-SLIP ADHESIVE MORTAR



Grey



White

- *Capability of laying ceramic tiles on the wall without shifting*
- *High adhesion performance*

- *Easy trowelling*
- *Safe usage for tile-on-tile applications*
- *Making labor easier with long working time*



PRODUCT INFORMATION

WHERE TO USE

- Application of coating materials such as porcelain tile, granite, natural stone, ceramic tile, Cotto tiles, marble etc. on cement-based surfaces.
- Indoor and outdoor applications on cement based surfaces such as concrete, plaster, screed etc.
- Tiling applications on ceramic tile and marble.

GENERAL FEATURES

- Nature** : Powder product containing high quality cement, filler and performance-enhancing polymer additives.
- Colour** : Grey / White
- Density** : $1.3 \pm 0.05 \text{ g/cm}^3$

TECHNICAL CHARACTERISTICS (*)

Tensile strength

- Initial (after 28 days) : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After heat ageing : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After water ageing : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After freeze-thaw cycle : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- Open time (after 30 minutes) : $\geq 0,5 \text{ MPa (N/mm}^2\text{)}$

Shear : $\leq 0.5 \text{ mm}$

Flexibility : Medium

Temperature resistance : $-30^\circ\text{C} - +70^\circ\text{C}$

Fire resistance class : A1 (TS EN 13501 – 1)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

STANDARDS AND DOCUMENTS

- 12004-1/C2TE class
 - CE
- Public works pos. No. : 10.300.2203



CONSUMPTION

- 3-6 kg/m² in average

PACKAGING

- In kraft bags, 25 kg, (48 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



Interior – Exterior



Surface Inspection



Application Temperature



Homogeneous Mixture



Application with Notched Trowel



Work Duration

APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 5.5 - 6.5 l water for 25 kg powder product
Time allowance for working and tile correction: 30 minutes
Time for use of mixture (Pot life): 3 hours
Application temperature: +5°C to +35°C
Time for foot traffic: minimum 24 hours
Pointing time: after minimum 24 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMI-FILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMI-FLOOR** levelling screeds. Surface corrections up to 5mm vertically and 7mm horizontally can be made with **CERMIGRES**.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMI-FILM PLUS** or **CERMI-FILM PLUS BETON** prior to application.

APPLICATION

- Slowly add 25 kg of **CERMIGRES** to 5.5 - 6.5 l (22-26%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- When prepared, the mortar should have a consistency that will not flow when taken on the trowel.
- After **CERMIGRES** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMIGRES** is 30 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- The prepared mixture should be consumed within 3 hours.
- For coating materials larger than 40x40 cm, a combined adhesion method (i.e. adhesive application both on the surface and on the back of the tile) should be used. Consumption may increase by 30-50% approximately.
- Proceed to the process of grouting at least 24 hours after the adhesion process.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMINET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- For applications to be made on large areas, necessary expansion joints should be allowed considering the thermal stress and mechanical loads that may occur on the surfaces and they should be filled with suitable **CERMITHANE** mastic or **CERMITAPE FPO** expansion profiles.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as bathroom, shower, WC, etc., waterproofing should be done with **CERMI-PROOF SF/FF/FF PLUS** prior to tile application.



SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIX

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