

# CERMIFLOOR PLUS 5-50

## CEMENT BASED SELF-LEVELING INDUSTRIAL LEVELING SCREED



Grey



- *Fast setting*
- *High abrasion resistance and crack resistance*
- *Self-leveling*

- *Suitable for heavy pedestrian-load traffic*
- *Can be used as a topcoat*
- *Ideal for underfloor heating systems*

## PRODUCT INFORMATION

### WHERE TO USE

- As the last floor on the floors of shopping malls, restaurants, exhibition halls and shops,
- As the last floor on industrial floors of workshops, warehouses, workshops, etc,
- Underfloor heating,
- Creating abrasion resistant floors on concrete, ceramic tiles and natural stones,
- Parquet, PVC, ceramic, carpet, linoleum, etc. It is used for leveling the floors before the application of coating materials.

### GENERAL FEATURES

<b>Material structure</b>	: Contains high quality special hydraulic binders.
<b>Type</b>	: Fine Powder
<b>Color</b>	: Grey
<b>Dry density</b>	: $1.4 \pm 0.05 \text{ gr/cm}^3$
<b>Mortar density</b>	: $1.90 \pm 0.05 \text{ gr/cm}^3$

### STANDARDS AND DOCUMENTS

- Tested according to TS EN 13813 standards.
- CE

### CONSUMPTION

• Consumption for 1 mm thickness is 1.9-2.1 kg/m<sup>2</sup>. (Approximate consumption may vary depending on the surface condition).

### TECHNICAL CHARACTERISTICS (\*)

<b>Compressive strength</b>	: $\geq 25 \text{ MPa}$ (1 day later)
	: $\geq 45 \text{ MPa}$ (28 day later)
<b>Bending strength</b>	: $\geq 10 \text{ MPa}$ (28 day)
<b>Temperature Resistance</b>	: $-30 \text{ }^\circ\text{C} - +70 \text{ }^\circ\text{C}$
<b>Abrasion Resistance Class (Böhme Test)</b>	: A12

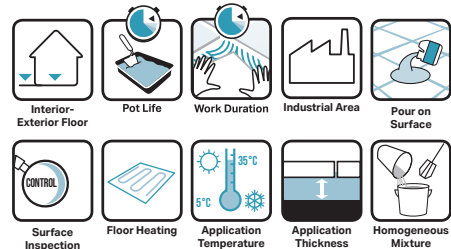
(\*) These values are obtained as a result of laboratory tests and are the performance values of the finished applications after 28 days. Values may vary due to differences in the construction site environment.

### PACKAGING

- 25 kg kraft bags

### STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- It should be stored in moisture-free, dry and protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



## APPLICATION

### APPLICATION PROCEDURE

**Application thickness :** 5-50 mm  
**Mixture usage time :** Maximum 30 minutes  
**Application temperature :** +5 °C - +30 °C  
**Coating time\* :** Min 24 hours  
 (increases depending on application thickness)  
**Opening time for pedestrian traffic:** 3 hours (light pedestrian traffic)  
 (\*): For diffusion-open coatings

### SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surface defects, cracks and holes can be corrected with **CERMIMORTAR**, **CERMIREP** repair mortars.
- The floor should be primed with **CERMIFFILM** before application and leveling screed should be applied after drying (approximately 1 hour). On glossy and non-absorbent substrates such as ceramics, if necessary, sandblast and apply **CERMIPRIME EPR 2C** epoxy primer. Screed should be spread before the epoxy primer is completely dry.

### APPLICATION

- Slowly add 25 kg of **CERMIFLOOR PLUS 5-50** to 5.0-5.5 liters (20-22%) of clean water and mix with a low speed mixer (400 rpm) until the mixture is homogenous and free of lumps.
- The mixture is rested for 3 minutes before application and applied after mixing again.
- The prepared mixture is spread on the floor with a steel trowel and the thickness is adjusted. A spiked roller should be used to avoid air bubbles in the product.
- The floor on which **CERMIFLOOR PLUS 5-50** is applied can be left as it is, polished or painted.
- For applications in large areas, an auger mortar machine that can pump 20-40 liters of mortar per minute by continuously mixing can be preferred. This type of machine will allow to speed up the workflow and work more efficiently.
- When starting the application, 1 bag of **CERMIFLOOR PLUS 5-50** should be mixed with 8.0-8.5 liters of water and passed through the entire hose before pumping the mortar onto the floor. This will act as a kind of primer, ensuring that the very slurry thinly coats the inner surfaces of the hose. However, this mortar used to prepare the machine should be discarded before it is applied to the floor. Due to the working time of the product, the machine and hose must be cleaned between applications longer than 30 minutes.
- After application, the surface should be kept continuously moist or cured by appropriate methods (e.g., using CerMiCure Curing Material) to prevent the loss of the necessary water within the product due to external factors, ensuring proper hydration and strength development.

### RECOMMENDATIONS

- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.
- If petrification is detected after opening the bags, the product should not be used.
- The product should be used within the life of the container after mixing.
- Do not add any foreign material such as lime, cement or gypsum into the prepared mortar.
- The floor to be applied on must be at least C25-C35 if it is concrete and at least C30-C50 strength class if it is screed.
- The amount of water indicated on the bag should be observed.
- In large area applications, considering the possible thermal stress and mechanical loads, expansion joints should be left every 25 m<sup>2</sup> and filled with **CERMITHANE** mastic or **CERMITAPE FPO** expansion profiles.
- Do not apply directly on surfaces such as metal, rubber, PVC, wood, etc.
- **CERMIFLOOR PLUS 5-50** should be poured in a smooth and continuous flow.

### SAFETY INSTRUCTIONS

- Since it is cement based, it should not be inhaled and contact with skin and eyes should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information, please read the Material Safety Data Sheet (MSDS).

**Note:** Technical values and application instructions are the results of our tests and experiences in accordance with international standards, valid under ambient conditions of 23 °C and 50% relative humidity. 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.



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