

# CERMIREP R3 T

**CEMENT BASED, R3 CLASS, FINE GRAINED, POLYMER REINFORCED, STRUCTURAL REPAIR MORTAR**



Grey



- *Vertical and overhead with its thixotropic structure ideal for applications*
- *Water and frost resistant*
- *Non-shrinking and cracking*

- *High mechanical strength and adhesion strength*
- *Ease of application with its non-corrosive structure*
- *Creating a smooth surface*

## PRODUCT INFORMATION

### WHERE TO USE

- Repair and leveling of concrete structures
- Column, girder repair, filling the core and rod holes,
- In the repair of superficial concrete segregations
- Possibility of application between 3-7 mm in one coat

### GENERAL FEATURES

<b>Structure</b>	: Cement-based grey powder with polymer additive
<b>Dry Mortar</b>	: $1.80 \pm 0.1 \text{ gr/cm}^3$
<b>Wet Mortar</b>	: $2.0 \pm 0.10 \text{ g/cm}^3$
<b>Colour</b>	: Grey
<b>Granular Size</b>	: $\leq 600 \mu\text{m}$

### TECHNICAL CHARACTERISTICS

<b>Compressive Strength</b>	: 20-40 MPa (EN 12190)
<b>Flexural Strength</b>	: 5-10 MPa (EN 196-1)
<b>Tensile Adhesion Strength</b>	: 1,5-2,5 MPa (EN 1542)
<b>Fire Resistance</b>	: Class A1 EN 13501-1
<b>Capillary Absorption</b>	: $\sim 0.05 \text{ kg.m}^{-2}.\text{h}^{0.5}$ (EN 13057)

(\*) These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

### STANDARDS AND DOCUMENTS

- EN 1504-3 R3
- CE

### CONSUMPTION

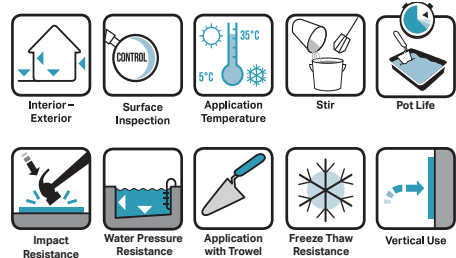
- Approximately  $2.0\text{-}2.2 \text{ kg/m}^2$  (1 mm thickness)

### PACKAGING

- 20 kg kraft bags (60 pieces on a pallet / 1200 kg)

### STORAGE

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



## APPLICATION

### APPLICATION PROCEDURE

<b>Application Thickness</b>	: 3-7 mm
<b>Application temperature</b>	: +5 °C ; +35 °C
<b>Pot Life</b>	: 30 minutes
<b>Putting into use</b>	: Min. 1 day
<b>Complete curing</b>	: 28 days
<b>Wait time between coats</b>	: 2-3 hours

### SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.
- The surface should not be too dry or completely wet before application. Before applying on surfaces exposed to direct sunlight or overheated, the surface temperature should be reduced by moistening with water sprinkling method.
- It is recommended to use **CERMIFILM** primer on absorbent surfaces.
- In repairs to be made on old concrete and reinforcement, **CERMIREP PASIV T** should be used as a primer to increase adhesion, and CermiRep repair mortar should be applied before it completely dries.

### APPLICATION

- 20 kg bag of material should be slowly poured into a container containing 4.2 - 4.6 liters of clean water (21-23%) and mixed with a low-speed (400 rpm) hand mixer for 3-4 minutes until it reaches a homogeneous consistency.
- The mortar should be rested for 2-3 minutes and then mixed again before application.
- **CERMIREP R3 T** can be applied to all surfaces to be repaired using a steel trowel.
- If 2 coats are to be applied, wait 2-3 hours between coats.
- The times given in the application information and steps may be shortened or extended in different environmental conditions (low/high temperature, humidity, wind, etc.).



### RECOMMENDATIONS

- Do not apply it on frost hazardous or overheated surfaces, under direct sunlight and in windy weather.
- 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.
- No foreign materials such as lime, cement or gypsum should be added into the mortar.
- Amount of water indicated on the bag should be observed.
- The applied surface should be moistened for 1-2 days, direct sunlight, wind, frost, etc. effects should be protected.
- Protect the applied surfaces against direct sunlight, rain and frost for at least 24 hours.
- Do not apply on new plastered or concrete surfaces before the curing time is completed.

### 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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