

## 1 \ ABOUT THIS PRODUCT

**CIMREP 1**, is a cementitious grey dry mortar, designed for non-structural repair of concrete.

This Dry Mortar is factory produced from carefully selected raw materials, thus assuring constancy and quality. It only requires the addition of water on site.

## 2 \ SUITABILITY

**CIMREP 1** is suitable for non-structural repair of concrete, in both internal and external applications.

**CIMREP 1** is classified as Class R2, according to EN 1504-3.

## 3 \ PACKAGING

**CIMREP 1** is supplied on 23 kg bags.

## 4 \ STORAGE AND SHELF LIFE

**CIMREP 1** must be kept on its bag until usage. When stored unopened in a dry place at temperatures above 5°C, and sheltered from direct sunlight, shelf life is 12 months from date of manufacture.

## 5 \ TECHNICAL DATA

Maximum aggregate size	0,6 mm
Mixing water	28 ± 1% 6,4 ℓ per 23 kg bag
Compressive Strength (28 days)	≥ 15 N/mm <sup>2</sup>
Chloride content	< 0,01%
Adhesive bond strength	≥ 0,8 N/mm <sup>2</sup>
Thermal compatibility	≥ 0,8 N/mm <sup>2</sup>
Capillary water absorption	≤ 0,5 kg/m <sup>2</sup> h <sup>0.5</sup>
Yield	18,5 ± 2 kg/m <sup>2</sup> cm de espessura

These results were obtained in controlled laboratory conditions in observance of the EN 1504-3 European Standard.

## 6 \ PREPARATION AND APPLICATION

### 6.1 \ Substrate preparation

- Thoroughly clean the concrete support, removing all loose and/or degraded concrete, using adequate cleaning methods.
- The steel rebar frame must be cleaned, removing all dirt, loose or degraded materials, concrete/mortar residues and any materials that may impair adhesion. Any non-loose rust on the rebar must be treated using **Rust Converter CIMRep F**.
- After cleaning the concrete and treating the rebar, make sure to remove any powder that may have been produced, and neither totally dry nor wet. The usage of **Adherence Primer CIMRep A** is recommended.

### 6.2 \ Application

Gradually add 6,4 litres of water to each 23 kg bag, and, using an electric mixer, mix to a smooth, workable stiff paste.

Once mixed, **CIMREP 1** shall be applied in the same fashion as traditional site-made mortars. When the render is green (set but not fully hardened) it should be carefully repressed, using a flat ruler, making sure that the steel rebar is totally embedded in the mortar.

The mixed paste must be applied in under 30 minutes, or less, depending on environmental conditions.

## 7 \ GOOD PRACTICES

**DO NOT ADD ANY OTHER MATERIALS TO CIMREP 1.**

### 7.1 \ Mixing water

The mixing water must be clean, and preferably potable. Drinking water is generally suitable.

Once the mixing is done, do not add any further water to the mortar.

### 7.2 \ Climate exposure

**CIMREP 1** must not be applied if the environmental temperature is below 5°C or above 30°C.

Do not apply on top of frozen substrates, avoid application if the substrate is subject to direct strong winds or intense sun exposure.

Apply a fine spray of clean water at 24 hours after render application, and repeat at 48 hours and 72 hours.

In hot and/or dry climates, the first spray of water should be applied after 6 hours, and the above curing is essential and should be extended for 3 - 5 days after application.

### 7.3 \ Thickness

**Application as part a concrete repair system.**

Each mortar layer shall have a thickness between 5 and 10 mm, and each layer should have similar thicknesses.

Successive mortar layers must be applied within a maximum of 2 hours, allowing just the necessary time to assure the setting and initial hardening of the bottom layer.

The overall total thickness must be less than 80 mm, but must be at least 15 mm, above the steel rebar.

**Application as a coating over concrete or mortar.**

Apply the mortar onto the substrate using a suitable notched trowel (6 mm teeth), and lay in a mesh (Use only fibreglass, alkali-resistant, meshes. The mesh size must be between 10 and 14 mm), embedding it in the mortar, using the flat face of the trowel, and flattening the notches. Make sure the mesh is flat, without any folds and is not touching the underlying substrate.

Cover the mesh with the mortar, applying it with the straight edge, using the minimum amount of mortar necessary to ensure that the mesh is totally embedded.

In this intended usage, the overall total thickness must be between 3 and 8 mm, but must be at least 15 mm, above the steel rebar.

# CIMRep 1

## CONCRETE REPAIR MORTAR



### 7.4 \ Finishing

Finish with a flat steel trowel, without adding any water, waiting at least 30 minutes from application.

### 8 \ HEALTH AND SAFETY

Contains cement (Contains chromium (VI). May produce an allergic reaction). Harmful by inhalation. Irritating to eyes and skin. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection. Do not swallow.

For further information, please request the Material Safety Data Sheet for this product.

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Any information presented on this document is, to the best of our knowledge and on the issue date, true. This document can be revised, and any information changed, without prior warning. Our responsibility goes only as far as the quality assurance of the product, and, thus, does not cover any eventuality that may arise from using this product in any form different from its intended use.

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