# Cementitious MRP

## Description

Cementitious MRP is a universal smooth-finishing, fast-drying and dimensionally stable repair mortar to fill deep grooves and holes or even out and repair stair steps and small floor surfaces, indoors.

This pasty, non-liquid, cement-bound repair mortar is also extremely well suited for use as a filler for holes, grooves, and irregularities in cement-bound and other stony floors. Ideal for the filling of trenches for underfloor heating systems. The high filling capacity makes that the mortar shows minimum shrinkage when filling underfloor heating trenches.

## Properties

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|---|---|
| Mineral-bound | |
| Solvent-free | |
| Polymer-modified | |
| Dimensionally stable | |
| Extremely high bond and compressive strength | |
| Suitable for many purposes | |
| Suitable for various types of finishing | |
| Fast drying and setting | |
| Density [1] (g/cm$^{3)}$ | 1,40 |
| Powder weight[2] (g/cm$^3$) | 1.11 |
| Processing time (min.) | 30 |
| Min. processing temp. ($^o$C) | 10 |

[1] = ISO 2811-1/+ 23ºC/50% R.H
[2] = powder weight in the ready-to-use mortar

Can be applied in thicker layers as a repair and levelling mortar. High structural physical values and stress-resistant. For layers of 3 to 50mm thick without additive. Ready to be coated or clad within a short time. Thanks also to the mortar's fine structure, it can be spread out to a layer of nearly zero millimetres and create a very smooth repair.

## Form

Powder, grey

## Packaging

Bag of 20 kilos

## Shelf life/Storage

Up to 6 months after the production date in its original packaging, sealed, unopened and undamaged, stored in dry conditions between +5ºC and +30ºC.

## Processing

**Mixing ratio:** 5.2kg/litres of water per 20kg bag of powder when using adhesive primer.

7kg/litres of water per 20kg bag of powder when not using adhesive primer on absorbent substrates.

When not using adhesive primer on absorbent substrates, use more water than the recommended quantity to ensure that sufficient mixing water is left to allow the mortar to set properly. Depending on the absorption, add up to 7 litres of water.

Be very mindful of this balance, as using too much water would result in a weaker mortar.

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Use the Collomix AQiX water dosing device or scales to measure the correct amount of water. **Do not use a measuring cup!**

Pour the water into the bucket, add a bag of Cementitious MRP, and mix it for 3 minutes to create a homogeneous substance.

Cementitious MRP can only be used indoors and is not suitable for use in rooms where it will constantly be exposed to moisture.

## System composition

Prepare the trenches with Primer Universal or spray water on them just before applying Cementitious MRP. This is to prevent the mixing water being absorbed into the sub-floor and not enough water being left for the mortar to be able to set. Otherwise, increase the amount of water, see page 1.

## Quantity needed

How much Cementitious MRP you need depends on the depth of the holes and other unevenness.

## Quartzline Cementitious MRP is part of the system:

Quartzline Construct

## Preparing the substrate

The underfloor heating must **ALWAYS** be turned off and have cooled down completely.

The substrate must be clean, dry, and free from dirt, oil, grease, and other contaminants. Before applying the product, all dust and loose elements must have been completely removed from all surfaces, preferably using a broom and/or industrial vacuum cleaner.

The substrate must be healthy and offer sufficient compressive strength (at least 25 N/mm²), with a minimum bond strength of 1.5 N/mm².

Remove all loose parts and clean the substrate thoroughly. If cleaning the substrate lays bare any (reinforcement) steel elements, remove rust from these elements and consider treating them with a reinforcement primer.

Prior to applying Quartzline Cementitious MRP, pre-moisten the substrate with water or apply Primer Universal. This will prevent water from remaining stagnant on the substrate.
The pre-moistening is intended to keep the reaction water in contact with the MRP without it being sucked into the substrate.

A maximum residual moisture content of <2.0 CM-% is permitted in the case of successive floor system installations (heated floors <1.8 CM-%).

## Processing conditions

Substrate temperature: Minimum 8ºC, maximum +30ºC

Ambient temperature: Minimum 8ºC, maximum +30ºC

Relative air humidity: A maximum of 75% RH

Dew point: Beware of condensation!

The temperature of the substrate and the non-set material must be at least 3ºC higher than the dew point to prevent a risk of condensation, crystalline growth, or cement laitance on the mortar surface.

## Processing

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|---|---|
| Processing time at 20ºC | 20 minutes |
| Ready to be coated over at 20ºC | 24 hours |

Check the RH and dew point before application.

Put some MRP on the trowel and push and spread it into the area you want to repair, without applying too much force. Apply as much mortar as you need to completely fill the hole or crack. As soon as the mortar has set somewhat but is still mouldable, smoothen the surface using a clean and slightly moist trowel.

Clean tools with water and, if necessary, soap immediately after use.
Mortar that has set completely can only be removed mechanically.

Make sure windows and doors are closed and draught is avoided. Depending on the climatic conditions, the trenches can be sanded and coated over after 24 hours.

## Comments

Do not mix with other cement or cementitious flooring products.

Cementitious MRP is intended for indoor use only and not suitable for permanently wet rooms. The floor layer on top must always be fully fixed, i.e. not floating.

Freshly applied Cementitious MRP must be protected against moisture, condensation, and water load for at least 24 hours.

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Do not add more water than the prescribed amount. Stop adding water when the product starts to react.

Protect from direct sunlight, heat or strong wind and extreme temperatures to prevent rapid drying and hairline cracks. These superficial hairline cracks or crazing are common under these conditions and do not justify a complaint.

## Value base

All technical data in this product information sheet is based on laboratory tests.
Data may change, depending on the circumstances.

## Health and safety information

For information and advice on the safe handling, storage and disposal of chemical products, the user should refer to the most recent material safety data sheet, covering physical, environmental, toxicological and other safety-related data.

## Legal notice

The information and, in particular, recommendations regarding the application and end-use of Quartzline products is provided in good faith based on Quartzline's current knowledge and experience of products that have been properly stored, handled and applied, under normal conditions.

In practice, the differences in materials, substrates and actual conditions on site may be such that no warranty can be derived from this information and advice with regard to the marketability or suitability for a particular purpose, nor any liability arising from any legal relationship, based on this information or from any written recommendations or any other advice given. Quartzline reserves the right to change product properties.
The property rights of third parties must be respected. All orders are accepted subject to our current terms of sale and delivery.
Users should always refer to the most recent issue of the Material Safety Data Sheet for the relevant product. A copy of this sheet will be provided on request.