



RM

- Restoration Mortar -

Mineral stone replacement mortar

Colour	Strength	Grain size	Availability		
			Quantity per pallet	64	32
			Size / Quantity	5 kg	15 kg
			Type of container	Plastic bucket	Plastic bucket
			Container code	05	15
			Art. no.		
Standard colours, medium grain, not hydrophobic					
MF100586 medium grey	normal	≤ 0.5 mm	0748	■	■
MF100003 white	normal	≤ 0.5 mm	0750	■	■
MF100011 yellow ochre	normal	≤ 0.5 mm	0751	■	■
MF100015 red-brown	normal	≤ 0.5 mm	0752	■	■
MF100017 turquoise grey	normal	≤ 0.5 mm	0753	■	■
MF100019 baumb. sandstone	normal	≤ 0.5 mm	0754	■	■
MF100029 yellow-green	normal	≤ 0.5 mm	0755	■	■
MF100030 beige	normal	≤ 0.5 mm	0756	■	■
MF100034 brick red	normal	≤ 0.5 mm	0757	■	■
MF100089 light beige	normal	≤ 0.5 mm	0758	■	■
MF100094 anthracite	normal	≤ 0.5 mm	0759	■	■
MF100124 marl	normal	≤ 0.5 mm	0760	■	■
MF100202 light yellow	normal	≤ 0.5 mm	0761	■	■
MF100214 coloured sandstone	normal	≤ 0.5 mm	0762	■	■
MF100235 brick orange	normal	≤ 0.5 mm	0763	■	■
MF100248 cream	normal	≤ 0.5 mm	0764	■	■
MF100001 grey	normal	≤ 0.5 mm	0765	■	■
MF100002 light grey	normal	≤ 0.5 mm	0766	■	■
MF100169 cotta sandstone	normal	≤ 0.5 mm	0767	■	■
MF100194 grey-white	normal	≤ 0.5 mm	0768	■	■
Special colours, hydrophobic formulation possible					
	normal	fine ≤ 0.2 mm	0742		■
	normal	medium ≤ 0.5 mm	0746		■
	normal	coarse ≤ 2.0 mm	0749		■
	soft	fine ≤ 0.2 mm	0786		■
	soft	medium ≤ 0.5 mm	0787		■
	soft	coarse ≤ 2.0 mm	0788		■
Specially configured composition and characteristic values					
	individual	individual	0769		■
Can be adjusted to match sample provided (stone, existing mortar) or colour no. (MF no., colour card, NCS etc.). Different grain size variants of the same article can result in minor colour deviations. Minimum order quantity for special colours: 30 kg					



Application rate

Approx. 1.6 kg/l void

Apply to a large enough trial area to determine the precise amount required.



Range of use

- Restoring, supplementing and re-profiling mineral substrates such as natural stone, brick, concrete and synthetic stone
- Reproducing ornamental building elements in a tamping procedure



Property profile

- Low free alkali content
- Good flank adhesion
- Low inherent stress
- UV-resistant pigments
- Can be made hydrophobic

Characteristic data of the product

Bulk density	Approx. 1.7 kg/dm ³
Water requirement	Approx. 0.65 - 0.85 l/5 kg Approx. 1.95 - 2.5 l/15 kg
Shrinkage deformation DIN 52450	After 7 days: approx. -0.3 mm/m After 28 days: approx. -0.7 mm/m
Flexural strength	After 7 days: approx. 4 N/mm ² After 28 days: approx. 5 N/mm ²
Compressive strength	Normal < 13 N/mm ² Soft < 8 N/mm ²
E-modulus (DIN 1048)	Normal approx. 11 kN/mm ² Soft approx. 7 kN/mm ²
Maximum grain size	Fine 0.2 mm Medium 0.5 mm Coarse 2.0 mm
Bond strength (28 d)	Approx. 0.5 N/mm ²

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Possible system products

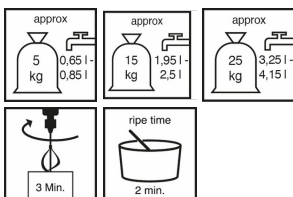
- [Antihydro \(0616\)](#)
- [Color LA Fill Historic \(6471\)](#)
- [Color LA Historic \(6476\)](#)
- [ZM HF ^{\[basic\]} \(0220\)](#)
- [RM GM M10 \(0638\)](#)

Preparation

- Substrate requirements
Clean, dust-free and capable of supporting a load.
- Substrate preparation
Any necessary cleaning measures should be performed as gently as possible, e.g. by spraying with cold or hot water or steam cleaning; stubborn dirt should preferably be cleaned using the rotec soft blasting method or Remmers cleaning products (e.g. Clean FP, Clean AC basic, Clean WR).
Preserve valuable heritage ornamental elements and statues by carefully removing encrusted dirt and using the appropriate Remmers Stone Strengthener to carry out repeated intensive strengthening.

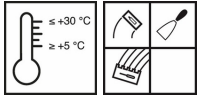
Production of the mixture

- Mixing
Pour water into a clean container and add dry mortar.
Mix thoroughly for approximately 3 minutes until the proper consistency for working has been achieved.
Maturing time approx. 2 minutes
Mix again and, if needed, add a small quantity of water.





Directions



- **Conditions for use**
Temperature of the material, air and substrate: from min. +5 °C to max. +30 °C.
Low temperatures increase, while high temperatures decrease the working and setting time.

- **Working time (+20 °C)**
Approx. 30 minutes

Apply a contact layer to the pre-wetted substrate using grout (dry mortar/water) in a layer thickness of approx. 2 mm.
Apply the mortar onto the contact layer wet-on-wet in layer thicknesses of 1.5 to 3 cm, 1 to 2 mm beyond what will become the final surface.
Joints in the masonry must be maintained.
Application of thin layers at the edges of defective areas can be facilitated by adding Remmers Haftfest to the mixing water (mixing ratio 1:10). In this case, hardening will be somewhat delayed but the bonding strength will be increased.
After sufficient hardening (when the grain pops), roughen the surface or scrape down to the final surface.
Rework the repaired areas (using a scraper or abrasion tool) onto the structure surrounding the defective area.
Wait at least 24 hours before applying subsequent layers.

Tips on use

Once it has hardened, mortar must not be made workable again by adding either water or more wet mortar.
The type and duration of the reworking and surface treatment will influence the colour.
Slight deviations in colour between different batches are possible.
Protect wet mortar surfaces against frost, rain and drying out too quickly for at least 4 days.

Notes

May contain traces of pyrite (iron sulphide).
Do not use on gypsum-based substrates.
The characteristic data of the product were calculated under laboratory conditions at 20°C and 65% relative humidity.
The mixing water must be of drinking water quality.
Low chromate content in accordance with Directive 2003/53/EC.
Special colour according to colour number (MF no., colour swatches, NCS etc.) or submitted sample (in the case of changing or alternating colours, clearly mark the desired colour).
The colour that is obtained after drying and hardening depends on the ambient conditions and the processing method. For instance, a freshly smoothed surface will be lighter than one that is smoothed later or roughened.
Different grain sizes of the same product may lead to slight differences in colour. Substrates soaked from the back may cause discolouration.
Always set up a trial area/trial areas first.
Alkaline binders may cause a dissolution process on non-ferrous metals.
Deviations from applicable regulations must be agreed separately.
The relevant test certificates must be observed when planning and carrying out work.

Tools / Cleaning



Clean tools with water while the material is still fresh.

- Remmers tools
- [Mischgefäß \(4030\)](#)
 - [Collomix® Stirrer KR \(4292\)](#)
 - [Smoothing Trowel \(4004\)](#)
 - [Glättkelle \(4117\)](#)
 - [Smoothing Trowel Duo \(4118\)](#)
 - [Fine render trowel -FLEXIS ONE- \(4233\)](#)

Storage / Shelf life



If stored in an unopened container and in a dry place, the product will keep for approx. 12 months.

Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.



Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.