





## RM ZF

## - Restoration Mortar ZF -

Mineral stone substitution mortar, cement-free

Strength	Grain size	Availability			
		Quantity per pa	llet	32	
		Size / Quantity		15 kg	
		Type of contain	er	Plastic bucket	
		Container code		15	
		Art. no.			
soft	fine ≤ 0.2 mm	0583			
soft	medium ≤ 0.5 mm	0584			
soft	coarse ≤ 2.0 mm	0585			
	tch sample provided (stone, existi iants of the same article can resul		o., colour card, NCS etc.).		
application rate		rox. 1.5 kg/l void ly to a large enough trial	area to determine the precis	e amount required.	
ange of use	ston			tes such as natural stone, brick, con	ncrete and synthet
roperty profile	Low Goo Low UV-r	ent-free strength free alkali content d flank adhesion inherent stress resistant pigments be made hydrophobic			
haracteristic data	of the Bulk	density	Approx. 1.4 kg/dm³		
product		er requirement	Fine 0.2 mm: approx. Medium 0.5 mm: appro Coarse 2.0 mm: appro	rox. 4.5 l	
	Flex	ural strength	al strength Approx. 1-2 N/mm <sup>2</sup>		
	Com	pressive strength	ssive strength After 7 days: approx. 2.0 N/mm <sup>2</sup> After 28 days: approx. 3.5 N/mm <sup>2</sup> (M 2.5)		
	E-m	odulus (DIN 1048)	Approx. 4 kN/mm²		
	Max	imum grain size	Fine: 0.2 mm Medium: 0.5 mm Coarse: 2.0 mm		
	The v	alues stated represent typical		and are not to be understood as binding p	roduct specifications.
Possible system pro	> ZM F	hygro (0616) HF <sup>[basic]</sup> (0220) GM M10 (0638)			

	remmers
Preparation	<ul> <li>Substrate requirements Clean, dust-free and capable of supporting a load.</li> <li>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.</li> </ul>
Production of the mixture (117252) 3 Min. 2 min.	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	<ul> <li>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.</li> <li>Working time (+20 °C) Approx. 30 minutes</li> <li>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 in layers of up to 3 cm wet-on-wet in the contact coat, to 1 to 2 mm above the final surface. Joints in the masonry must be maintained. 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.</li> </ul>
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. The flank adhesion can be increased by adding ZM HF <sup>[basic]</sup> to the mixing water (ratio 1:10).
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. 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	Mixer, trowel, smoothing trowel, foam rubber float, plasterer's float
	Clean tools with water while the material is still fresh.
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.