Technical Data Sheet Product number 1094







Betofix R4 EM rapid

Fast-acting, high-strength PCC screed mortar

Colour	Availability			
	Quantity per pallet	36		
	Size / Quantity	25 kg		
	Type of container	Paper bag		
	Container code	25		
	Art. no.			
grey	1094			
Application rate	Approx. 2.0 kg/m²/mm coating thickness, or approx. 2.0 kg/dm³			
2.0 kg/ mm thickness				
Range of use	-	on components with a rough surface that are positioned horizontally or at a gentle		
• •	slant Bonded screed, floating screed and screed on separating layer Heated screeds Load-bearing layer underneath reactive resin coatings Base layer under Remmers Crete coatings 			
	Interior and exterior use			
Property profile	 High mechanical resistance Fast curing Low shrinkage Low-stress and crack-free set Can be applied by machine Screed according to DIN EN 13 			
Characteristic data of the	Water requirement	Approx. 8%, equivalent to 2.0 l/25 kg		
product	Ready to be covered	Diffusible coverings/coatings: approx. 12 h Vapour-tight coverings/coatings: approx. 24 h		
	Flexural strength	28 d: ≥ 8.0 N/mm²		
	Reaction to fire	Class A1 _{fl}		
	Compressive strength	Room temperature 20 °C: 6 h: ≥ 15 N/mm² 24 h: ≥ 35 N/mm² 28 d: ≥ 40 N/mm² Room temperature 5 °C: 24 h: ≥ 30 N/mm² 28 d: ≥ 40 N/mm²		
	Maximum grain size	5 mm		
	Bulk density of fresh mortar	Approx. 2.1 kg/dm³		
		characteristic data of the product and are not to be understood as binding product specifications.		
Possible system products	 Betofix HB ^[basic] (1082) Betofix KHB (1087) 			
Preparation	Substrate requirements The substrate must be firm, dimensionally stable, capable of bearing loads and free of loose constituents, dust, oil, grease, rubber marks and other substances that could interfere with adhesion.			
	5432 83-346 Eax++49 5432 83 709 International@rem	mers de 🔳 www.remmers.com 1094 TM-4 04/23 TAn. MvD. HE		

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	The tensile strength of the surface of the substrate must be at least 1.5 N/mm² on average (smallest individual value of at least 1.0 N/mm²), and the compressive strength must be at least 25 N/mm².		
Production of the mixture	 Mixing Prepare water, add dry mortar and mix until homogeneous. When using as a bonding slurry, add approx. 11% water. Mixing time: approx. 3 minutes 		
Directions	 Conditions for use Temperature of the material, air and substrate: from min. +5 °C to max. +25 °C. Low temperatures increase, while high temperatures decrease the working and setting time. Once it has hardened, mortar must not be made workable again by adding either water or more wet mortar. Application time:: (+20 °C): approx. 30 minutes 		
	Layer thickness Single layer thickness < 80 mm Layer thickness in breakouts up to max. 100 mm In the case of bonded screeds, apply the product while the bonding layer is still wet. Subsequent processing Protect fresh mortar surfaces from wind, direct sunlight, rain and/or frost for at least 3 days so that they do not dry too quickly.		
	Machine working Please contact Remmers Technical Service (phone +49 5432 83900) before applying with machine processing.		
Tools / Cleaning	Mixing tool, trowel, aluminium rule, smoothing trowel, power trowel Clean tools with water while the material is still fresh. Remmers tools Mischgefäß (4030) Smoothing Trowel (4004) Bodenglätter (4116) Glättkelle (4117) Smoothing Trowel Duo (4118)		
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.		
Declaration of performance	> Declaration of performance		





Declaration of conformity

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Betofix R4 EM rapid

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20 (CE); 23 (UKCA) **GBI-P 68-3** EN 13813: 2002 (CT - C40 - F8 - A7 - B1,5) **1094**

For applications with low performance requirements in construction and civil engineering

Reaction to fire:	A1fl
Release of corrosive substances:	СТ
Water permeability:	NPD
Water vapour permeability:	NPD
Compressive strength:	C40
Flexural strength:	F8
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

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.