

# Nafufill RM 10

Microsilica-modified sealing and levelling mortar



## PRODUCT PROPERTIES

- One-component, only to be mixed with water
- Application by hand and wet spraying technique
- Resistant to temperature, frost-thaw and de-icing salts
- High water retention
- Low active alkali content, highly sulphate-resistant binder
- Open to water vapour diffusion and impermeable to water
- Non-flammable according to EN 13501-1 - building material class A1
- Registered with DGNB (Code: MV8B6V)
- Class R1 according to EN 1504 part 3

## AREAS OF APPLICATION

- System-compatible sealing and levelling mortar for waterproofing in accordance with WTA 4-6
- Sealing mortar tested in accordance with WTA Leaflet 4-6 as well as DIN 18533
- System-compatible with MC-Proof 101 HS
- Suitable for partial and full-surface repair of non-structural building elements
- Suitable for the production of levelling layers on concrete as well as brickwork and natural stone masonry
- Suitable as a joint mortar for brick and natural stone masonry
- Suitable for the formation of coves
- Certified according to DIN EN 1504 Part 3 for principles 3 and 7, procedures 3.1, 3.3 and 7.1

## APPLICATION ADVICE

**Substrate preparation:** See leaflet "General Application Advice Coarse Mortars/Concrete Replacement Systems". Masonry and concrete substrates must be sound, free from dust, loose particles and any other contaminants.

**Bond coat on concrete substrates:** Nafufill BC must only be used as a bonding coat when applied by hand.

**Mixing:** Nafufill RM 10 is added to the prepared water under constant stirring and mixed until a homogeneous and lump-free mortar is achieved. Forced action mixers or slowly rotating double mixers must be used for mixing. Mixing by hand and preparation of partial quantities is not permitted. Mixing takes 5 minutes.

**Mixing ratio:** Please see "Technical Data" table.

**Application:** Nafufill RM 10 can be applied by hand or wet spraying. The material may be applied in one or more layers. A worm pump with adjustable discharge flow is advised for spray application. Please request our assistance. Following application Nafufill RM 10 may be smoothed and finished using a wooden or plastic float.

**Application as sealing mortar:** Nafufill RM 10 is effective as sealing mortar with layer thicknesses above 20 mm.

For layer thicknesses below 20 mm, please request our special advice.

**Curing:** Nafufill RM 10 must be protected from too fast drying due to direct sun exposure and wind. Conventional curing time is 3 days.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Maximum grain size	mm	1.2	
Mixing ratio	p.b.w.	100 : 14 - 15	powder component : water
Working time	minutes	60	at 5° C
		45	at 20 °C
		30	at 30 °C
Application conditions	°C	≥ 5 ≤ 30	Temperatura del aire, soporte y material
Consumption	kg/m <sup>2</sup> /mm		
Dry mortar		1.8	
Flexural strength	N/mm <sup>2</sup>		applied by hand
7 d		1.3	
28 d		3.5	
Flexural strength	N/mm <sup>2</sup>		spray application
7 d		2.8	
28 d		4	
Compressive strength	N/mm <sup>2</sup>		applied by hand
7 d		4.8	
28 d		12.8	
Compressive strength	N/mm <sup>2</sup>		spray application
7 d		10.9	
28 d		22.1	
E-modulus (dynamic)	N/mm <sup>2</sup>	19,800	after 28 days
Layer thickness	mm	4	minimum layer thickness per pass/operation
		30	maximum layer thickness per pass/operation
		60	maximum total layer thickness
		50	as a reprofiling mortar
		20	minimum layer thickness as sealing mortar
Fresh mortar bulk density	kg/dm <sup>3</sup>	2.08	
Shrinkage (applied by hand)	mm/m	0.85	after 28 days
		0.97	after 90 days

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Form	pulverous
Colour	Cement grey
Delivery form	25 kg bag
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.
Packaging disposal	Make sure single-use containers are completely empty.

GISCODE : ZP1

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2400020989]