

## PRODUCT PROPERTIES

- Cement-containing polymer filler
- One-component
- Extremely high water retention
- Curing-free
- Application by hand or wet spraying technique
- Grindable
- Resistant to frost-thaw and temperature changes
- May be applied at air and substrate temperatures up to + 50 °C
- Suitable as surface filler, scratch- and levelling coat
- Mortar class R1 according to EN 1504 part 3

## AREAS OF APPLICATION

- Hybrid filler for non-accessible and non-driven-on concrete components, both interior and exterior
- Filling of pores, blowholes and surface roughness
- Thin-layer filling up to max. 1 mm
- Suitable on normal- and lightweight concrete, lime sand brick and all mineral, cement-bound substrates
- Certified and classified according to EN 1504 part 3 for principle 3, procedures 3.1 and 3.3

## APPLICATION ADVICE

**Substrate Preparation:** See leaflet “General Application Advice Nafufill SF”.

**Pre-wetting:** See leaflet “General Application Advice Nafufill SF”.

**Mixing:** Nafufill SF is added to the prepared water under constant stirring and mixed thoroughly until homogeneous and lump-free. Fast rotating spiral mixers or small double agitators are to be used for mixing. We recommend the following mixing proceeding: 1 - 2 minutes mixing, 1 - 2 minutes maturing time followed by thorough stirring. Mixing of partial quantities is permitted.

**Mixing Ratio:** See “Technical Data” table. For a 12.5 kg bag of Nafufill SF approx. 4 to 4.25 litres of water are required. As with other cementitious products the quantity of added water may vary.

**Application:** Nafufill SF can be applied by hand or spraying technique. Hand application to be carried out using a trowel, float and rubber squeegee. Worm pumps with variably adjustable discharge flow are advised for spray application.

**Finishing:** Following application Nafufill SF may be smoothed and finished using a dry, soft sponge. In case of spray application the surface may remain spray-rough. To remove remaining edges or unevenness, the sound Nafufill SF surface may be grinded with-in the first 24 hours using a grinding tool with grinding lattice. Grinded or smoothed surfaces are to be primed with MC-Color Primer to application of coating systems, e.g. MC-Color Flair pure, pro and vision and MC-Color Flair Flex pure, pro and vision.

**General Information:** If Nafufill SF is applied at substrate temperatures > + 35 °C the work steps for application and finishing must be timed accordingly.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Maximum grain size	mm	0.1	
Mixing ratio	p.b.w.	100 : 32 - 34	powder component : water
Working time	minutes	40	at 5° C
		30	at 20 °C
		20	at 30 °C
Application conditions	°C	≥ 5 ≤ 50	air and substrate temperatures
		≥ 5 ≤ 30	material temperature
Consumption <sup>1)</sup>	kg/m <sup>2</sup> /mm		
As a levelling filler		1.28	
As a scratch coat	kg/m <sup>2</sup>		
		0.6 - 1.2	
As a pore and blowhole filler	kg/m <sup>2</sup>		
		0.6 - 1.2	
Flexural strength	N/mm <sup>2</sup>		
24 h		1	
7 d		1.4	
28 d		4.5	
Compressive strength	N/mm <sup>2</sup>		
24 h		1.6	
7 d	N/mm <sup>2</sup>		
		2.8	
28 d	N/mm <sup>2</sup>		
		11	
E-modulus (dynamic)	N/mm <sup>2</sup>	8,500	after 28 days
Layer thickness	mm	1	minimum layer thickness per pass/operation
		1	maximum layer thickness per pass/operation
		1	maximum total layer thickness
Fresh mortar bulk density	kg/dm <sup>3</sup>	1.72	
Waiting times	minutes	60	1st step / 2nd step

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

1) The consumption values depend on the impermeability, porosity and type of substrate. To determine the object-specific consumption quantities, it is advisable to create test areas.

Form	pulverous
Colour	light grey
Delivery form	Tubs 12.5 kg
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.

**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. [2400020506]