

# Nafufill SF

## Hybrid filler

### 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

#### 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 within 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 Data Nafufill SF

Characteristic	Unit	Value*	Comment
Largest aggregate	mm	0.1	
Fresh mortar density	kg/dm <sup>3</sup>	1.72	
Flexural strength / Compressive strength	MPa	1.0 / 1.6 1.4 / 2.8 4.5 / 11.0	after 24 hours after 7 days after 28 days
Dynamic E-modulus	MPa	8,500	after 28 days
Coverage (dry mortar)**	kg/m <sup>2</sup> /mm kg/m <sup>2</sup>	1.28 0.6 - 1.2	as surface filler as scratch- and levelling coat
Application times	minutes	40 30 20	at + 5 °C at + 20 °C at + 30 °C
Layer thickness for surface filler	mm	1	max. total layer thickness
Application conditions	°C	≥ 5 - ≤ 50	air and substrate temperature
Application conditions	°C	≥ 5 - ≤ 30	material temperature
Mixing ratio	p.b.w.	100 : 32 - 34	Nafufill SF : water

## Product Characteristics Nafufill SF

Colour	light-grey
Delivery	12.5 kg buckets
Storage	Can be stored in cool and dry conditions for at least one year in original unopened packs.
Disposal	Packs must be emptied completely.

\* All values have been determined in the lab at + 23 °C and 50 % relative humidity.

\*\* Coverage rates depend on density, porosity, type of substrate etc. To determine project-specific coverage rates we recommend applying a trial surface.

**Note:** The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 08/16. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.