

# Nafuflex Profi Tech 1

**Fast drying single-component, sprayable, polymer-modified bituminous thick coating for waterproofing of building structures**

## Product Properties

- Polymer-modified bituminous thick coating (PMB)
- Highly flexible and crack-bridging
- Sprayable consistency, optimized for airless technique
- Solvent-free, thus environmentally friendly
- Tested according to DIN 18195, parts 4, 5, 6

## Areas of Application

- Waterproofing of vertical, horizontal and inclined surfaces underneath protective layers according to DIN 18195
- Soil moisture and non-pressing water
- Temporary accumulating percolating water up to a maximum foundation depth of 3 m below ground level

## Application Notes

### Substrate Preparation

Nafuflex Profi Tech 1 can be applied to all mineral substrates. Substrate preparation should comply with DIN 18195, part 3. The substrate must be frost-free, dry, free from any contamination (e.g. dust, demoulding agent), and free from surface pockets, gaping cracks or ridges. Matt damp or slightly moist surfaces are tolerable. Against rear damping, a mineral sealing slurry (e.g. Oxal DS-HS) needs to be applied. Recesses  $\geq 5$  mm have to be filled and closed with a suitable barrier mortar (e.g. Oxal SPM). In the area of floor to wall connections a groove with a mineral mortar (e.g. Oxal SPM) has to be created.

If the substrate is prepared as given above, priming is not necessary in spraying applications. Nevertheless, very absorbent and/or sandy substrates need a primary coating with Nafuflex GIP.

### Application

Nafuflex Profi Tech 1 is applied evenly and pore-free to the substrate by spraying (airless technique). The layer thickness depends on the potential water pressure penetrating the building. In the case of soil moisture and non-pressing water, a

minimum of 3 mm dry-layer thickness (in 2 layers) is required. Stronger water penetration demands at least 4 mm dry-layer thickness (in 2 layers) containing the certified reinforcement Nafuflex Grid 25 NF.

### Curing and After-treatment

Protect Nafuflex Profi Tech 1 from rain until it has developed its rain resistance. Water penetration and frost exposure must be prevented until the coating has dried out completely. The fully cured waterproofing must be protected lastingly from damaging influences such as static, dynamic and thermal influences as well as UV radiation. This is done by installing an appropriate protective layer (e.g. perimeter insulation). Only then it is possible to refill the excavation pit layer-by-layer.

### Further Information

DIN 18195 and the "Regulation for the Planning and Application of Sealing with Polymer-modified Thick Bituminous Coatings" (3rd edition, Mai 2010) must be considered when sealing building structures with polymer-modified thick bituminous coatings.

### Technical Data for Nafuflex Profi Tech 1

Characteristic	Unit	Value	Comments
Density	g/cm <sup>3</sup>	0.98	
Processing conditions	°C	≥ +5	air- and substrate-temperature
Drying	days	2 - 4	At 20 °C and 65 % relative humidity The drying time can be reduced or extended depending on temperature, relative humidity, substrate, and wet layer-thickness.
Coverage	l/m <sup>2</sup>	4.4 5.9	Wet layer-thickness      Dry-layer thickness 4.4 mm                      3 mm 5.9 mm                      4 mm The coverage may be higher dependent on substrate condition and workmanship

### Product Characteristics for Nafuflex Profi Tech 1

Certification	General construction-supervision inspection-certificate in accordance with the „Inspection policies for the issue of general construction-supervision inspection-certificates for sealing of buildings”, edition: September 2009 (MPA Dortmund))
Form of Delivery	30 l bucket 1 pallet (12 buckets at 30 l)
Storage	Can be stored for at approx. 12 month in original unopened packs under dry conditions. Please protect from frost!
Disposal	To protect our environment please empty the packs completely.

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

**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 05/13. 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.