

Nafuflex Profi Tech 1

Fast drying one-component, sprayable, polymer-modified bituminous thick coating (PMBC) for waterproofing of building structures



PRODUCT PROPERTIES

- Polymer-modified bituminous thick coating (PMBC)
- Highly flexible and crack-bridging
- Sprayable consistency, optimised for airless technique
- Solvent-free and eco-friendly
- In accordance with DIN 18533 and DIN EN 15814

AREAS OF APPLICATION

- Waterproofing of vertical, horizontal and inclined surfaces underneath protective layers; also according to DIN 18533
- Waterproofing for the water influence classes W1-E, W2.1-E, W3-E and W4-E

APPLICATION ADVICE

Substrate Preparation: Nafuflex Profi Tech 1 can be applied to all mineral substrates. The substrate preparation could comply with DIN 18533, part 1 and 3. The substrate must be frost-free, dry, free from anti-adhesive substances (e.g. dust, release 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 ≥ 5 mm have to be filled and closed with a suitable barrier mortar (Oxal SPM). In the area of floor to wall connections a groove with the mineral mortar 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 porefree to the substrate by spraying (airless technique). The layer thickness depends on the water influence class. For the water influence classes W1-E and W4-E a minimum of 3 mm dry layer thickness (in 2 layers) is required. The water influence classes W2.1 and W3-E demand at least 4 mm dry layer thickness (in 2 layers). If required, a certified reinforcement layer Nafuflex Grid 25 NF can be applied.

Curing: 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.

General Information: DIN 18533 and the "Regulation for the Planning and Application of Sealing with Polymer-modified Thick Bituminous Coatings" (3rd edition, Mai 2010) can be considered when sealing building structures with polymer-modified bituminous thick coatings.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	g/cm ³	0.98	mix
Application conditions	°C	≥ 5	air and substrate temperatures
Consumption ¹⁾	l/m ²	4.4	4.4 wet / 3.0 dry
		5.9	5.9 wet / 4.0 dry
		2 - 4	at 20°C and 65% rel. humidity
Drying time ²⁾	days	2 - 4	at 20°C and 65% rel. humidity

1)

2) depending on temperature, humidity, substrate and wet layer thickness, drying time may be longer or shorter

test certificates	CE marking per EN 15814, radon impermeability (Saarland University, Homburg)
delivery form	30 l hobbock 1 pallet (12 hobbocks @ 30 l)
Storage	Can be stored in original sealed packages at temperatures between 5°C and 30°C in dry conditions for at least 12 months.

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. [2100004764]