

# Nafuflex Multi Tech 2

Cement-free, two-component polymer-modified bituminous thick coating (PMBC) for waterproofing of building structures



## PRODUCT PROPERTIES

- Polymer-modified bituminous thick coating (PMBC)
- Cement-free
- Polystyrene-filled
- Impervious to radon
- Highly flexible and crack-bridging
- Exceptionally long working time, even at temperatures up to 35° C
- Trowelable and sprayable
- Very economical in consumption
- Long shelf life of 24 months
- Solvent-free and eco-friendly
- In accordance with DIN 18533 and DIN EN 15814

## AREAS OF APPLICATION

- For waterproofing of vertical, horizontal and inclined surfaces underneath protective layers according to DIN 18533
- Waterproofing for the water influence classes W1-E, W2.1-E, W3-E and W4-E
- Adhesive for backing panels, insulation panels and drainage panels

## APPLICATION ADVICE

**Substrate Preparation:** Nafuflex Multi Tech 2 can be applied to all mineral substrates. The substrate preparation should 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 / MC-Proof 101 HS) needs to be applied.

Recesses > 5 mm have to be filled and closed with a suitable barrier mortar (Nafuquick uni). In the area of floor to wall connections a groove with a mineral mortar (e.g. Nafuquick uni) has to be created.

Alternatively, the MC-Fast-Tape system can be used in the wall/floor area. Before applying the bituminous thick coating, an undercoat is necessary. For regular absorbent substrates the undercoat can be made from 1 part of Nafuflex Multi Tech 2 and 10 parts of water. Highly absorptive or powdery substrates should be primed with Nafuflex GIP.

**Application:** Nafuflex Multi Tech 2 is mixed for at least 3 minutes into a homogenous and paste-like filling compound with an anchor-shaped agitator at slow rotation rate. The mixed material is applied evenly and free of pores with a trowel or by spraying with a spira pump.

Pores and blowholes in the substrate can lead to blistering. To reduce blistering, a pore-filling scratch coat of Nafuflex Multi Tech 2 should be applied onto the substrate in advance.

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-E and W3-E demand at least 4 mm dry layer thickness (in 2 layers) containing the certified reinforcement Nafuflex Grid 25 NF.

**Curing:** Protect Nafuflex Multi Tech 2 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 lastingly protected 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 2020) must be considered when sealing building structures with polymer-modified bituminous thick coatings.

## APPLICATION ADVICE

The factory-set mixing ratio must be strictly adhered to.

required minimum dry layer thickness $d_{\min}^*$	wet (mm)	dry (mm)
W1-E: Soil moisture with no pressing water	3,3	3,0
W2.1-E: Pressing water (moderate exposure)	4,4	4,0
W3-E: Earth-covered roofs	4,4	4,0
W4-E: Splash water and soil moisture at wall footings/plinths	3,3	3,0

\*The layer thickness specifications of DIN 18533 must be observed.

### Consumption

for water impact classes W1-E und W4-E	~ 3,6 kg/m <sup>2</sup> ( $\triangleq$ 3,3 mm wet layer thickness)
for water impact classes W2.1-E und W3-E	~ 4,8 kg/m <sup>2</sup> ( $\triangleq$ 4,4 mm wet layer thickness)

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density (mixture)	kg/dm <sup>3</sup>	1.09	
Mixing ratio	p.b.w.	1 : 1	powder component : liquid component
Working time	hours	approx. 3	at 20° C and 65 % rel. humidity
Application conditions	°C	> 5 < 35	air and substrate temperatures
Consumption (flat)	kg/m <sup>2</sup>	3.6	3.3 wet / 3.0 dry
		4.8	4.4 wet / 4.0 dry
Drying time	days	approx. 2 - 3	depending on temperature, humidity, substrate and wet layer thickness, drying time may be longer or shorter

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

Test certificates	CE marking per EN 15814
Delivery form	15 kg hobbocks 1 pallet (18 hobbocks of 15 kg each); 15 kg bags 1 pallet (36 bags of 15 kg each)
Storage	Can be stored in original sealed packages at temperatures between 5°C and 30°C in dry conditions for at least 24 months.
Packaging disposal	Make sure single-use containers are completely empty.

### Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : BBP10

**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. [2400021824]