

# MC-Nafuplan 404 TP (Previously known as Dictagum 40 MS)

## Mineral-surfaced bituminous torch-on waterproofing membrane

### Product Properties

- 4.5kg polymer-modified bituminous waterproofing membrane
- Surfaced with natural color slates to provide protection against UV and light foot traffic
- High resistance to water and rising vapor pressure, installation of vent pipe is recommended.
- Polyester-reinforced for tensile strength
- Excellent flexibility for withstanding substrate movements
- Tear- and puncture-resistant
- Easy torch-on installation
- Chemical resistance

### Areas of Application

- Roof slabs
- Terraces, patios & parapets

### Approval / Standard

- SIRIM certified - Test method: Adopted to BS EN 1928:2000  
Flexible sheets for waterproofing – bitumen, plastics and rubber sheets for roof waterproofing-  
Determination of water tightness.

### Application

#### Substrate Preparation

The substrate must be sound, firm, clean and free of all loose particles, dust, cement laitance, oil and other contaminants. All sharp protuberances and concrete waste droppings must be removed. After removal of weak and loose substrates, re-profiling must be carried out with a suitable cementitious mortar and allowed to cure prior to waterproofing works.

R.C. slabs or screeds must be cast to fall prior to installation of membrane.

#### Priming & Application

For torch-on bonded applications, prime the concrete substrate with Nafuflex Primer WB using a roller. Allow to dry completely and apply the membrane as soon as possible to prevent re-accumulation of dust, dirt and debris.

Starting from the lowest point, unroll the membrane with the torching surface (PE film side) against the substrate. Re-roll half-way and begin torching until beading of liquid bitumen occurs at the bonding junction. Unroll forward, pressing the torched membrane firmly against the substrate. Move the flame constantly and avoid over-heating. Re-roll the opposite end and repeat this procedure.

#### Overlaps and Sealing of Joints

With follow-on membranes, unroll against the installed piece and align properly allowing for overlap requirements. Maintain laps of 150 mm at roll ends and 100 mm at sides. Make sure end joints are staggered and avoid 4-corner overlaps.

Apply the torch to both overlap surfaces and take extra caution to ensure full bonding between membranes is achieved. Use a round-tipped heated trowel to push molten beads into the seams.

Any unbonded area must be lifted and re-torched. Do not attempt to achieve welding by heating the top surface of the membrane.

#### Up-stands

Cement-sand fillet shall be installed at all angles and corners. MC-Nafuplan 404 TP shall be lapped with the base membrane and extended upwards on parapets and tucked into a groove cut into concrete. The grooves shall then be sealed with a suitable sealant.

#### Protection

For weather-exposed applications, no protection is needed as MC-Nafuplan 404 TP is resistant to UV & light foot traffic.

### Technical Data for MC-Nafuplan 404 TP

Characteristics	Unit	Value	Comments
Thickness	Mm	~ 3.5	EN 1849-1
	kg	4.5	
Polyester Reinforcement	g/m <sup>2</sup>	~ 160	
Tensile Strength	N/5 cm	600 / 450	Longitudinal / Transverse EN 12311-1
Elongation at Break	%	35 / 35	Longitudinal / Transverse EN 12311-1
Tear Resistance	N	170 / 170	Longitudinal / Transverse EN 12310-1
Watertightness (A)	kPa	60	No Leakage EN 1928
Dimension stability	%	0.3 / 0.3	Longitudinal / Transverse EN 1107-1 met A
Resistance to Impact	mm	800	EN 12691
Reaction to fire	Class	E	EN 13501-1
External fire performance	Class	F Roof	EN 13501-5
Flexibility at low temperature after Aging	°C	110	EN 1296 / EN 1110

### Product Characteristics for MC-Nafuplan 404 TP

Type of Membrane	Polyester-reinforced polymer-modified bituminous sheets
Appearance	Black with natural color slate finish
Form of Delivery	1 m x 10 m rolls (approx. 45 kg per roll) 23 Rolls / Pallet
Shelf-life & Storage	Can be stored for <b>12 months</b> if stored vertically in original unopened rolls in cool dry conditions, away from direct sunlight.

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

#### Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets

**Note:** Bespoke vendor supplies. 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 07/24.** 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.