



NIMACO

The Waterproofing Specialists

product data sheet
version 1.0

MAC NEATO

Polyurethane liquid membrane for waterproofing & protection.

DESCRIPTION

MAC NEATO is the industry standard in waterproofing.

For over 30 years, it has provided a simple solution for waterproofing and protection.

It is a one component, low viscosity, polyurethane fluid that cures with the humidity in the atmosphere to produce a highly elastic membrane with strong adhesion to many types of surfaces.

It is based on pure elastomeric hydrophobic polyurethane resin plus special inorganic fillers, which result in excellent mechanical, chemical, thermal, UV and natural element resistance properties.

APPLICATIONS

Waterproofing and protection of:

- Gypsum and Cement boards
- Tiles (under)
- Bathrooms
- Roofs
- Light roofing made of metal or fibrous cement
- Asphalt Membranes.
- As the main waterproofing membrane in car park waterproofing systems.

LIMITATIONS: Not recommended for:

- unsound substrates (in some cases, application is possible with the use of geotextile reinforcement;
- waterproofing of swimming pool surfaces in contact with chemically treated water.

FEATURES & BENEFITS

- No thinning is required but solvent may be used.
- Excellent weather and UV resistance. The white color reflects much of the solar energy and so reduces the internal temperature of buildings considerably.
- Excellent thermal resistance, the product never turns soft.
- Max service temperature 80 oC
- Max shock temperature 200 oC
- Resistance in the cold: The film remains elastic even down to -40 oC
- Excellent mechanical properties.
- Good chemical resistance.
- Non-toxic after full cure.
- Water vapor transmission: The film breathes so there is no accumulation of humidity under the coat.



APPLICATION PROCEDURE

Can be successfully applied on:

Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood, corroded metal, and galvanized steel.

For information about other substrates, please contact our tech department.

Concrete substrate conditions (standard):

- Hardness: R28 = 15Mpa.
- Humidity: W < 10%.
- Temperature: 5-35 oC
- Relative humidity: < 85%.

Primer selection for special conditions and substrates:

Please refer to the *Primer Selection Table*.

Clean the surface using a high-pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must be removed. Fill surface irregularities with appropriate products.

Mixing:

Use a low speed (300 rpm) mixer. May optionally be thinned with 5-10% SOLVENT.

For application by spraying (airless) thin with 10% SOLVENT.

Application:

Apply the material with roller or brush in two, at least, coats. Leave 6-24 hours between coats.

If more time passes (for example more than 4 days) or if you are unsure of the interlayer adhesion please contact our technical department.



When used in dark colors for exposed use, a protective topcoat (always pigmented at the desired color) is required.

In order to maintain long-term solar reflectance and better color protection, it is beneficial to apply the aforementioned topcoat layers even when **MAC NEATO** is applied in light colors.

CONSUMPTION

- First coat: 0.75-0.9 kg/m2.
 - Second coat: 0.75-0.9 kg/m2.
- Minimum total consumption: 1.5-1.8 kg/m2.

CLEANING

Clean tools and equipment first with paper and then using **MAC SOLVENT**.
Rollers will not be reusable.

PACKAGING

- 25 kg
- 6 kg
- 1 kg

SAFETY INFORMATION

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25o C.
Once a pail has been opened, use as soon as possible
Contains volatile flammable solvents.
Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.



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CLASSIFICATION ACCORDING TO EOTA (EUROPEAN ORGANISATION OF TECHNICAL APPROVAL)		
REQUIREMENT	MAC NEATO	MAC NEATO + MAC CRYSTAL DYE
Minimum expected working life	W3 (25 years)	W2 (10 years)
Climatic zone	S (Severe)	
User load	P1	P3
Roof slope	S1- S4	
Minimum surface temperature	TL3 (-20 °C)	
Maximum surface temperature	TH4 (90 °C)	TH3 (80 °C)
Exposure to external fire	Broof (t1)	
Reaction to fire	Class E	

TECHNICAL SPECIFICATIONS

The product in liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (BROOKFIELD)	cP	ASTM D2196-86, @ 25 oC	3000-6000
Specific weight	gr/cm3	ASTM D1475 / DIN 53217 / ISO 2811, @ 20oC	1,34-1,46
Flash point	oC	ASTM D93, closed cup	43
Tack free time @ 77 Of (25 oC) & 55% RH	hours	-	3.9
Recoat time	hours	-	6-24

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The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	oC	-	-40 to 80
Max. temperature short time (shock)	oC	-	198
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	60
Tensile strength at break @ 23 °C	Kg/cm ² (N/mm ²)	ASTM D412 / EN-ISO-527-3	>80 (>8)
Percent elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 495
Water vapor transmission	gr/m ² hr.	ASTM E96 (Water Method)	0.9
Adhesion to concrete	Kg/cm ² (N/mm ²)	ASTM D4541	> 20 (> 2)
QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB- Lamps) & 4hr COND @ 50 °C)	-	ASTM G53	passed (2000 hours)
Hydrolysis (8% KOH, 15 days @ 50°C)	-	-	no significant elastomeric property change
Hydrolysis (H ₂ O, 14-day cycle RT-100 °C)	-	-	no significant elastomeric property change
Hydrolysis (H ₂ O, 30-day cycle 60-100 °C)	-	-	no significant elastomeric property change
HCL (PH=2, 10 days @ RT)	-	-	no significant elastomeric property change
Thermal resistance (100 days @ 80 °C)	-	EOTA TR011	passed