



NIMACO

**Polyurethane
liquid
membrane for
waterproofing
of wet rooms
and non-
exposed
applications.**

DESCRIPTION

MAC MUGGY is a revolutionary Nimaco's product with low solvent i.e. it is not subject to ADR regulation and can be transported as non-flammable material without hazardous transportation limitations (non-IMO). The product is a one component polyurethane fluid that cures with the humidity in the atmosphere. It produces a highly elastic, hydrophobic membrane and has been designed to offer excellent long term waterproofing of wet rooms, substructures and any application not exposed to UV. The rheology of the material is such that it allows easy application even on vertical substrates.

product data sheet

VERSION 1.0

MAC MUGGY

RECOMMENDED FOR

Waterproofing of:

- ☐ Wet rooms
- ☐ Foundation walls
- ☐ Flat roofs, under tile or screed,
- ☐ verandas and balconies (under protection)

LIMITATIONS: Not recommended for:

- ☐ UV exposure
- ☐ Not recommended for applications where high temperatures are involved. Not recommended for waterproofing under dark color tiles (exposed) or on thermo-insulating materials.
- ☐ Unsound substrates,
- ☐ Waterproofing of swimming pool surfaces in contact with chemically treated water.

FEATURES & BENEFITS

- ☐ Highly Elastic
- ☐ Easy application even on vertical substrates
- ☐ Resistance to cold: The film remains elastic even down to -40 °C.
- ☐ Non-toxic after full cure.
- ☐ Water vapor transmission: The film breathes so there is no accumulation of humidity under the coat.
- ☐ Special primers available for almost any substrate.

APPLICATION PROCEDURE

Can be successfully applied on:

Concrete, fibrous cement, mosaic, cement roof tiles, wood, corroded metal, and galvanized steel. For information about other substrates, please contact our tech department.

Standard concrete substrate conditions (no primer needed):

- ☐ Hardness: R28 = 15 MPa.
- ☐ Humidity: W < 10%.
- ☐ Temperature: 5-35 °C.
- ☐ Relative humidity: < 85%.

Primer selection for special conditions and substrates:

Please refer to the **Primer Selection Table**.

Clean the substrate using a high-pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must also be removed. Surface irregularities should also be filled.

Priming:

Apply the required primer following the guidelines above.

Mixing:

Use a low speed (300 rpm) mixer. Add SOLVENT 5-10% for application by spraying.

Application:

Apply with roller, brush or airless spraying (200-250 bar) in two, at least, coats. Do not exceed 48 hours between coats.



CONSUMPTION Minimum total consumption: 1.5 kg/m² in one or two coats.	CLEANING Clean tools and equipment first with paper and then using SOLVENT. Rollers will not be re- usable.
PACKAGING <ul style="list-style-type: none">• 1 kg• 6 kg• 15 kg• 25 kg• 200 kg drums.	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 opened, use as soon as possible. The MSDS (Material Safety Data Sheet) is available on request.



TECHNICAL SPECIFICATIONS

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, @ 20 oC	1.5-1.6

In cured form (after application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	oC	-	-40 to 60
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	60
Tensile strength at break @ 23 oC	Kg/cm2 (N/mm2)	ASTM D412 / EN-ISO-527-3	30 (3.0)
Elongation @ 23 oC	%	ASTM D412 / EN-ISO-527-3	> 1000
Water vapor transmission	gr/m2.hr	ASTM E96 (Water Method)	0.8

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