

Mantoflex

**TECHNOLOGICAL LIQUID
AND ELASTIC
WATERPROOFING MEMBRANE**



TECHNICAL DATA SHEET

DESCRIPTION

One-component liquid product composed of synthetic elastomers in aqueous dispersion. Once dry, it forms a continuous, elastic membrane resistant to UV rays, ageing and aggressive atmospheric agents.

MANTOFLEX is permeable to water vapour and adheres to substrates including bituminous membranes, concrete, asbestos cement and wood.

FIELDS OF APPLICATION

For waterproofing old and new walkable coverings **without standing water**, such as terraces and balconies; repairing and protecting old bituminous membranes; waterproofing gutters and chimneys; and waterproofing bathrooms and shower stalls before laying ceramic coverings. The original sheet also identifies use for permanent encapsulation of asbestos-cement slabs.

PACKAGING

20 kg, 5 kg and 1 kg containers.

Application and specifications

APPLICATION SYSTEM

Protective waterproofing of surfaces not subject to standing water, including gutters, terraces, balconies and shower stalls, should be carried out using an elastomeric liquid membrane such as MANTOFLEX by COLMEF S.r.l.

Apply using a roller, brush or airless equipment. Embed alkali-resistant fibreglass mesh, such as **ARMOFLEX 120** by COLMEF S.r.l., between the two coats.

THICKNESS AND CONSUMPTION

The final MANTOFLEX thickness must be **at least 1 mm** to form a consistent coating. The maximum thickness stated in the original technical table is **2 mm**.

Consumption: **1.5 kg/m² per mm of thickness** for the coloured product.

APPLICATION AND DRYING

Application temperature	+8 °C to +35 °C
Surface film formation	Around 1 hour
Complete hardening at 2 mm thickness	Around 5 days
Waiting time between coats	≤ 24 hours
Waiting time before laying covering	≥ 48 hours

Times and values are reported as stated in the original technical sheet. Tests performed at 23 °C and 50% relative humidity, without air ventilation.

Technical data

TECHNICAL DATA

Appearance	Thick paste
Colours	White, grey, brick red, green
Specific weight	1.5 g/cm ³
pH value	≥ 8.5
Solid residue	75%
Brookfield viscosity	100,000 mPa·s
Application temperature	+8 °C to +35 °C
Maximum thickness	≤ 2 mm
Consumption (coloured product)	1.5 kg/m ² per mm of thickness

FINAL PERFORMANCE

Tensile strength at 28 days*	300%
Traction strength	1.3 N/mm ²
Ageing resistance	Good
Wear resistance	Good
Water vapour permeability	6 g/m ² after 24 hours
Operating temperature	−30 °C to +80 °C
Shore A hardness	Around 30
Water absorption by weight	6%

*Property name and percentage reproduced from the original sheet.

Tests performed at 23 °C and 50% relative humidity, in the absence of air ventilation.