

Mapeplan TPO - Roofing and Decking Membranes

Building Product Information Requirements Compliance Statement

Date: 06/09/2023 (version 1)

Product identifiers: **Mapeplan TB and Mapeplan TaF**

Product Description

Mapeplan TB and Mapeplan TaF are part of the Mapeplan TPO system and are single ply sheet membranes that can be applied via adhesive bonding or in some cases loose laid with fastenings. They are used for waterproofing flat roofs, balconies and decks on concrete or timber substrates.

Mapeplan TB and TaF are polyester fabric reinforced thermoplastic polyolefin membranes (TPO).

- Mapeplan TB - 1.5mm thick smooth membrane supplied in rolls of 2m width and 20m length.
- Mapeplan TaF - 1.5mm fleece backed membrane of 2.1m width and 20 m length.
- They are supplied as grey or white colour.

There are several ancillary products in the Mapeplan TPO system including:

- Mapeplan TD 15, Mapeplan T (external& Internal corners)
- Mapeplan T metal sheet, Mapeplan T seam prep
- Mapeplan T walkway, Mapeplan T outlet
- Mapeplan ADS 310 adhesive.

MBP (NZ) Ltd.

Exclusive distributor of Mapei products in New Zealand
88 Carbine Road, Mt Wellington, Auckland 1060, New Zealand
T. +64 99211994 | F. +64 99211993 | www.mbpltd.co.nz

WE SUPPLY THE FOLLOWING MAPEI GROUP BRANDS AND SYSTEMS:



Relevant Building Code Clauses

B2 Durability — B2.3.1 (b)

E2 External moisture — E2.3.1, E2.3.2, E2.3.7

F2 Hazardous building materials — F2.3.1

Contributions to Compliance

B2 Durability B.2 3.1 (b) Mapeplan TPO meets the durability requirements.

E2 External Moisture E.2 3.1, E.2 3.2, E.2 3.2.7 Mapeplan TPO meet these requirements.

F2 Hazardous Building Materials F2.3.1 Mapeplan TPO meets this requirement.

For evidence of compliance see BRANZ (1101) 2019.

Scope and Design Requirement

The Mapeplan TPO system is used for waterproofing of flat roofs, balconies and decks.

It can be used on new and existing residential and commercial buildings. Mapeplan TaF backed membrane is used for overlays of uneven substrates, and Mapeplan TB is used for new and existing concrete or plywood, compressed sheet and strandsarking substrates.

They are used within the scope limitations of E2 AS1 as follows:

- With minimum falls of 1:30 (roofs), 1:60 (concrete roofs) and 1:40 (decks)
- With deck size limited to 40m², situated in NZS 3604 wind zones, up to and including extra high.

Mapeplan TPO must be designed and constructed within the following **scope**:

- Subject to specific structural and weathertight design with substrates of plywood, strandsarking (roofs only) or suspended concrete slab. Situated in specific design wind pressures up to a maximum design differential ultimate limit state [ULS] of 6kPa. The weathertightness design junctions for each specific structure being the responsibility of the building designer.

Roofs and decks waterproofed with Mapeplan TPO must be designed and constructed in accordance with the following **limitations:**

- Flat roofs, decks and pitched roofs constructed to drain water to gutters and drainage outlets complying with the NZBC. The design must not have any steps within the deck level, and no integral roof gardens, and no downpipes direct discharge to the deck surface. The deck membranes need to be continually protected from physical damage by a pedestal protection system. The design and construction of the substrate and movement control joints is specific to each building and is the sole responsibility of the building designer and building contractor.

The Mapeplan TPO system must only be installed by an MBP(NZ) Ltd approved applicator.

Conditions and Limitations of Use

Installation of the membrane must be completed by a MBP (NZ) Ltd approved applicator.

Installation of substrates must be completed by or under supervision of a licensed building practitioner with the relevant license class, in accordance with instructions given with the MBP (NZ) Ltd technical literature.

Supporting Documentation

The following additional documentation supports the above statements:

BRANZ Appraisal 1101 (2019) - Mapeplan TPO (Certification)

V 25th Feb 2021

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapeplan-tb---smooth-back-tpo-membrane-for-roofing---decking>

Mapeplan TPO - Technical Datasheet (Design)

V 07/21

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapeplan-tb---smooth-back-tpo-membrane-for-roofing---decking>

Mapeplan TPO - Installation Manual (Installation)

V 09/16 - 2000

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapeplan-tb---smooth-back-tpo-membrane-for-roofing---decking>

Mapeplan TPO - Care & Maintenance Document (Maintenance)

V 2021

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapeplan-tb---smooth-back-tpo-membrane-for-roofing---decking>

Contact Details**Manufacture location**

Polyglass SpA

34 – 31047 Ponte di Piave (TV) – Italy

Tel +39 04227547

www.polyglass.com

info@polyglass.it

Importer NZ Address for Service

MBP (NZ) Ltd

88 Carbine Road,

Auckland 1060

Tel 09 921 1994

www.mbpltd.co.nz

enquiries@mbpltd.co.nz

Importer NZBN: 8080877

Warnings and Bans

Mapeplan TPO is not subject to a warning or ban under section 26 of the Building Act 2004.

Appendix

All relevant building code performance clauses listed in this document:

B2 Durability

B2.3.1

Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated, or:

(b)

15 years if:

those building elements (including the building envelope, exposed plumbing in the subfloor space, and in-built chimneys and flues) are moderately difficult to access or replace, or

failure of those building elements to comply with the building code would go undetected during normal use of the building but would be easily detected during normal maintenance.

E2 External moisture

E2.3.1

Roofs must shed precipitated moisture. In locations subject to snowfalls, roofs must also shed melted snow.

E2.3.2

Roofs and exterior walls must prevent the penetration of water that could cause undue dampness, damage to building elements, or both.

E2.3.7

Building elements must be constructed in a way that makes due allowance for the following:

the consequences of failure:

the effects of uncertainties resulting from construction or from the sequence in which different aspects of construction occur:

variation in the properties of materials and in the characteristics of the site.

F2 Hazardous building materials**F2.3.1**

The quantities of gas, liquid, radiation, or solid particles emitted by materials used in the construction of buildings, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.

Version History

Version number	Written by	Checked by	Date issued	Changes from previous version
V1 06/09/2023	JP	PT	08/09/2023	New document