

Mapeproof FBT

Building Product Information

Date: 18/11/24 - Version 1

Product name: **Mapeproof FBT**
Product identifier: **Mapeproof FBT**

Product line

MAPEPROOF FBT is a waterproofing system for structures below ground level that fully-bonds to poured concrete.

Product Description

MAPEPROOF FBT is a waterproofing membrane consisting of a layer of synthetic FPO bonded to a polypropylene non-woven fabric backing which, after concrete has been placed, adheres monolithically to the concrete, and remains bonded permanently over time.

MAPEPROOF FBT also forms a protective barrier against radon, a naturally occurring invisible, odourless gas hazardous to health, to prevent it penetrating structures.

The MAPEPROOF FBT system is completed by accessory systems such as **Adesoguard 1.8mm** self-adhesive membrane (post applied).

Using this system enables an effective, fully bonded waterproofing membrane to be installed both before and after placing concrete for foundation structures. There are several ancillary products in the Mapeproof FBT system including:

- Mapeproof FBT Tape 600
- Mapeproof FBT Fix Tape
- Mapeproof FBT SA Tape
- Adesoguard 1.8mm SA membrane system (post applied)
- Idrostop Waterstops

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

The following clauses of the New Zealand Building Code are relevant to Mapeproof FBT:

Clause B2 DURABILITY: Performance B2.3.1 (a) not less than 50 years. Mapeproof FBT® Membranes meet this requirement.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.3. Mapeproof FBT® Membranes meet this requirement.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Mapeproof FBT® Membranes meet this requirement.

Compliance with these building code clauses is confirmed by Mapeproof FBT conforming with the requirements of the BS EN 13967 standard (“Flexible sheets for waterproofing, Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet”). See the Technical datasheet:

<https://www.mapei.com/it/en/products-and-solutions/products/detail/mapeproof-fbt>

Scope and design requirements

Mapeproof FBT system is used for waterproofing horizontal and vertical surfaces of underground structures before pouring concrete such as

- Carparks and garages.
- Under foundations slabs & underground areas in general.
- Swimming pools, basins, and storage tanks.
- Underpasses in infrastructure & hydraulic structures in the water industry

Mapeproof FBT may be applied underneath foundation slabs and against diaphragms, pile walls, sheet piling and other retaining structures.

Substrates suitable for applying Mapeproof FBT include concrete, rigid insulating panels, timber formwork and plywood.

Mapeproof FBT is made up of a synthetic membrane, laminated with non-woven polypropylene fabric which, once concrete has been poured, forms a monolithic bond with the concrete and remains perfectly bonded over time.

The system comprises of several components as follows:

- Mapeproof FBT Tape 600, adhesive tape to form waterproof laps **over** the top of adjacent sheets, and laps to Adesoguard (post applied)
- Mapeproof SA Tape, adhesive tape to form sealed joints **under** adjacent sheets Mapeproof FBT, and Adesoguard SA
- Mapeproof Fix Tape, double-sided adhesive fixing tape, for vertical surfaces.

Mapeproof FBT is a waterproofing system that becomes fully bonded to poured concrete and prevents water from migrating laterally between the foundation structure and the membrane.

Mapeproof FBT is cold-applied, and no heat and/or naked flames are required. It is positioned before placing the steel reinforcement and pouring the concrete and does not require a protective layer.

Mapeproof FBT is extremely flexible and is easy to shape during installation so that it follows the form and geometry of the substrate.

Do not apply Mapeproof FBT if there is water or standing water present.

If Mapeproof FBT is accidentally damaged while carrying out normal site activities, repair the damaged area by inserting below it (lean side/excavation confining work) an off cut of the sheet, sealed with Mapeproof FBT Tape 600. Concrete must be poured over Mapeproof FBT within 50 days (40 days in hot weather) of application.

When Mapeproof FBT is applied prior to pouring concrete inside formworks, it is only possible to remove the formworks when the concrete reaches a compressive strength of 10 N/mm² or more.

In case of accidental accumulation of dust, sand, and mud on the adhesive surface of Mapeproof FBT, perform a surface wash to ensure correct bond to the subsequently poured concrete.

Conditions and Limitations of use

All building work must be undertaken by MBP (NZ) Ltd approved applicators. Where the work involves Restricted Building Work, this must also be completed by, or under the supervision of, a Licensed Building Practitioner (LBP) with the relevant License class.

Supporting documentation

Mapeproof FBT technical datasheet (Installation) 7484-11-2024 EN (IT)

<https://www.mapei.com/it/en/products-and-solutions/products/detail/mapeproof-fbt>

Mapeproof FBT EPD (Certification) 2024-07-25

<https://www.mapei.com/it/en/products-and-solutions/products/detail/mapeproof-fbt>

Contact Details

Manufacture location.

Polyglass SpA Head Office
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

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

Version number	Written by	Reviewed by	Date issued	Changes from previous version
VI 18/11/24	JP	PT	18/11/2024	New document