

## Mapefix EP 50

### Building Product Information Requirements Compliance Statement

Date: 18/10/2023 (version 1)

Product Name: **Mapefix EP 50**

Product identifier: **Mapefix EP 50**

#### Product Line

Mapefix EP 50 is a pure epoxy resin based, structural chemical anchoring adhesive with a long working time.

#### Product Description

Mapefix EP 50 is a 2-component chemical anchor supplied in 585 ml bi-axial cartridges containing components A (resin) and B (catalyst) in correct proportions. It is used for anchoring of threaded bars, steel and galvanised steel reinforcing bars into cracked and non-cracked concrete (in tension and compression zones). It is also suitable for anchoring in stone, masonry and wood.

Mapefix EP 50 can be used for most applications on horizontal, vertical or sloping axis. It can be used on ceilings in compression or tension zones subjected to static stresses. It can be used for smooth, rough or core drilled holes and holes of larger diameter. Mapefix EP 50 can be used on dry, damp and wet substrates and in flooded holes. Mapefix EP 50 performance characteristics contribute to extend the service life of the anchor to over 50 years.

Mapefix EP 50 is available in boxes of single cartridges and boxes of 12 x 585ml cartridges.

Please refer the TDS for applications, performance parameters and application procedure for this product. Alternatively request support at:

[www.mapei.com/nz/en/technical-and-commercial-support](http://www.mapei.com/nz/en/technical-and-commercial-support)

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WE SUPPLY THE FOLLOWING MAPEI GROUP BRANDS AND SYSTEMS:



**Relevant Building Code Clauses**

- B1 Structure
- B2 Durability
- F2 Hazardous Building Materials: F2.3.1

**Contributions to Compliance**

## B1 Structure, B2 Durability

- Mapefix EP 50 is certified according to European standards ETA option 1 (anchors in concrete in tension and compression zones), ETA REBAR (anchors for supplementary reinforcement)
- Mapefix EP 50 performance characteristics contribute to extend the service life of the anchor to over 50 years
- The size of the hole to be drilled in the substrate, the depth of the anchoring, diameter of the metal bar and the applicable loads must be calculated by a Structural Design Engineer
- A Structural Design Engineer should review the NZ Building Code clauses with reference to European Standards ETA option 1 (anchors in concrete in tension and compression zones), ETA REBAR (anchors for supplementary reinforcement), to confirm compliance for each application
- A Structural Design Engineer should design the anchoring requirements by referring to the tables given in the TDS, prepared on the basis of the testing performed on the product referring the test methods described in European Assessment document EAD 330499-01-0601 (for anchors) and EAD 330087-00-0601 (for post installed rebar).

## F2 Hazardous Building Materials: F2.3.1

- Mapefix EP 50 being an epoxy based product is hazardous during application. Therefore, appropriate safety precautions should be used during application as stated in the product safety data sheet, including wearing the appropriate personal protective equipment. Once cured and hardened, Mapefix EP50 is not hazardous and does not give rise to harmful gases or substances when exposed.

### **Scope and Design Requirements**

- A Structural Design Engineer should design the anchoring requirements by referring to the tables given in the TDS, prepared on the basis of the testing performed on the product referring to the test methods described in European Assessment document EAD 330499-01-0601 (for anchors) and EAD 330087-00-0601 (for post installed rebar).
- The size of the hole to be drilled in the substrate, the depth of the anchoring, diameter of the metal bar and the applicable loads must be calculated by a Structural Design Engineer
- Mapefix EP 50 is certified according to European standards ETA option 1 to be used for anchoring in concrete in tension and compression zones, and ETA REBAR for anchoring as a supplementary reinforcement.
- A qualified Structural Engineer should check and confirm the compatibility of the product with other building components.

### **Conditions and Limitations of Use**

- Do not use Mapefix EP 50 on dusty and crumbling surfaces
- Do not apply loads until the Mapefix EP 50 is completely hardened
- Do not use on surfaces which are dirty with oil, grease or stripping compounds, the bonding could be compromised or reduced

### **Supporting documentation**

The following additional documentation supports the above statements:

#### **Mapefix EP 50 - Technical Data Sheet (5810-7-2022)**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapefix-ep-50>

#### **Mapefix EP 50 - Safety Data Sheet (16/10/2023 - version 1)**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapefix-ep-50>

#### **Mapefix EP 50 – ETA Certification**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapefix-ep-50>

**Contact Details****Manufacture location**

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**Warnings and Bans**

Mapefix EP 50 is not subject to a warning or ban under section 26 of the Building Act 2004.

**Version History**

<b>Version number</b>	<b>Written by</b>	<b>Reviewed by</b>	<b>Date issued</b>	<b>Changes from previous version</b>
VI 18/10/2023	PM	PT	23/11/2023	New document