

## Mapefix EP 100

### Building Product Information Requirements Compliance Statement

Date: 18/10/2023 (version 1)

Product Name: **Mapefix EP 100**

Product identifier: **Mapefix EP 100**

#### Product Line

Mapefix EP 100 is pure epoxy resin based, structural chemical anchoring adhesive, designed to be used in C1 & C2 category seismic areas. It is also resistant to fire.

#### Product Description

Mapefix EP 100 is a 2-component chemical anchor supplied in 585 ml bi-axial cartridges containing components A (resin) and B (catalyser) in correct proportions. It is developed to be used for anchoring of threaded bars, reinforcing bars made out of steel and galvanised steel into concrete (in tension, compression zones, cracked or non-cracked) including areas with seismic activity of C1 and C2 classes. It can also be used with stone, masonry, wood & sound masonry substrates.

Mapefix EP 100 can be used for most anchors on horizontal, vertical and sloping axis. It can be used on ceilings in compression or tension zones subjected to static and dynamic stresses and seismic loads. It can be used for smooth, rough, core drilled holes including those of larger diameter. Mapefix EP 100 can be used in dry, damp, wet and flooded holes. Mapefix EP 100 performance characteristics contribute to extend the service life of the anchor to over 100 years.

Mapefix EP 100 is available in single cartridges and boxes of 12 x 585ml cartridges.

Please refer TDS for areas of use, performance parameters and application procedure for this product. Alternativley 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
- C6 Structural Stability
- F2 Hazardous Building Materials: F2.3.1

## **Contributions to Compliance**

### B1 Structure, B2 Durability and C6 Structural Stability

- Mapefix EP 100 is certified according to European standards ETA option 1 (anchors in concrete in tension and compression zones), ETA REBAR (anchors for supplementary reinforcement), ETA CORE DRILL option (anchors for core drilled holes), ETA seismic performance classes C1 and C2 (for use in areas at risk of seismic activity) and resistance to fire
- Mapefix EP 100 performance characteristics contribute to extend the service life of the anchor to over 100 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), ETA CORE DRILL option (anchors for core drilled holes), ETA seismic performance classes C1 and C2 (for use in areas at risk of seismic activity) and resistance to fire to confirm compliance for each application
- A Structural Design Engineer should design the anchoring requirements by referring the tables given in 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 330087-01-0601 (for post installed rebar).

### F2 Hazardous Building Materials: F2.3.1

- Mapefix EP 100 being an epoxy base product is hazardous during application. Therefore, appropriate health and safety precautions should be followed during application including the wearing of appropriate personal protective equipment. Read the Safety Data Sheet before use. Once cured and hardened Mapefix EP100 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 the tables given in 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 330087-01-0601 (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 100 is certified according to European standards ETA option 1 to be used for anchoring concrete tension and compression zones, ETA REBAR for anchoring supplementary reinforcement, ETA CORE DRILL option for anchoring in core drilled holes, ETA seismic performance classes C1 and C2 for anchoring in areas at risk of seismic activity, and resistance to fire.
- A qualified Structural Engineer should check and confirm the compatibility of the product with Building Components.

## **Conditions and Limitations of Use**

- Do not use Mapefix EP 100 on dusty and crumbling surfaces.
- Do not apply loads, until the Mapefix EP 100 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 100 - Technical Data Sheet (05809-7-2022)**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapefix-ep-100>

### **Mapefix EP 100 - Safety Data Sheet (19/07/2023 - version 1)**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapefix-ep-100>

### **Mapefix EP 100 – ETA Certification**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapefix-ep-100>

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

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**Warnings and Bans**

Mapefix EP 100 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>
V1 18/10/2203	PM	PT	23/11/2023	New document