

Mapefill MC 06

Building Product Information Requirements Compliance Statement

Date: 13/10/2023 (version 1)

Product Name: **Mapefill MC 06**

Product identifier: **Mapefill MC 06**

Product Line

Mapefill MC 06 is a structural R4 class (EN 1504), dual shrinkage compensated, super flowable, micro concrete for concrete repairs.

Product Description

Mapefill MC 06 is super flowable, dual shrinkage compensated, micro concrete suitable for pouring into formworks without separation of aggregates used for structural reinstatement of deteriorated concrete structures. Maximum aggregate size of Mapefill MC 06 is 6mm. Thickness of application ranges from 50mm to 250mm.

Once cured, Mapefill MC 06 has very high flexural and compressive strength having good adhesion with old concrete, especially if the old concrete is saturated beforehand and the reinforcement is treated with Mapefer 1K Zero.

Mapefill MC 06 is available in 25 kg bags.

Ancillary products used with Mapefill MC 06 include:

- Mapefer 1K Zero - corrosion inhibitor for reinforcement bars and adhesion improver for concrete repair mortars

Please refer TDS for areas of use, performance parameters and application procedure for this product. Or request support at:

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

Contributions to Compliance

B1 Structure, B2 Durability and C6 Structural Stability

- Mapefill MC 06 meets the minimum requirements of EN 1504-3 (“Structural and non-structural repair”) for structural mortars of class R4.
- A suitably qualified Structural Design Engineer should specify this product based on the structural requirements of the degraded concrete structure.
- A Structural Design Engineer should review the NZ Building code clauses with reference to EN 1504-3, SAA/SNZ HB84:1996 and NZS 3101:2006 to confirm compliance for each specific application.
- Mapefill MC 06 has an A1 rating for Fire as per euro class EN 13501-1

F2 Hazardous Building Materials: F2.3.1

- Mapefill MC 06 contains a mix of cement, sand, expansive agents, and additives. When the product is being applied, it therefore has the same hazards as fresh concrete and appropriate health, and safety precautions should be undertaken. Read the products SDS and wear the appropriate personal protective equipment. Once this product is set and hard Mapefill MC 06 is a non-hazardous product and does not emit any harmful gases or substance.

Scope and Design Requirements

- Specification Mapefill MC 06 should be specifically undertaken by a qualified structural engineer after identifying the cause of degradation of the concrete structure/member, by selecting relevant flowable repair mortar to meet the performance parameters required for restoration.
- Specification should comply with the requirements of EN 1504-3, SAA/SNZ HB84:1996, NZS 3101:2006.
- A qualified structural Engineer should check and confirm the compatibility of the product with Building Components.

Conditions and Limitations of Use

- Do not use Mapefill MC 06 for precision grouting.
- Do not use Mapefill MC 06 for applications by spray or trowel.
- Mapefill MC 06 should not be applied on smooth surfaces, roughen the surface thoroughly and add rebars if necessary.

Supporting Documentation

The following additional documentation supports the above statements:

Maepfill MC 06 - Technical Data Sheet (474-10-2017)

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/maepfill-mc-06>

Maepfill MC 06 - Safety Data Sheet (09/06/2021)

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/maepfill-mc-06>

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Warnings and Bans

Mapefill MC 06 is not subject to a warning or ban under section 26 of the Building Act 2004.

Version History

Version number	Written by	Checked by	Date issued	Changes from previous version
V1 18/10/23	PM	PT	18/10/2023	New document