

Mapegrout T60

Building Product Information Requirements Compliance Statement

Date: 18/10/2023 (version 1)

Product name: **Mapegrout T60**

Product identifier: **Mapegrout T60**

Product Line

Mapegrout T60 is a sulphate resistant, fibre reinforced, shrinkage compensated, thixotropic structural R4 class of repair mortar for repairing concrete.

Product Description

Mapegrout T60 is used for repair of degraded concrete structures subject to sulphate attack. It is a single component, pre-blended thixotropic cement-based repair mortar composed of sulphate resistant hydraulic binders, synthetic polyacrylonitrile fibres, organic corrosion inhibitors, aggregates and water retaining admixtures. Mapegrout T60 is used for repairing concrete members (e.g., balconies, columns, beams, etc.). Mapegrout T60 is also used for repairs of canal linings, hydraulic works, and tunnels that require resistance to sulphate attack.

For exposed reinforcement, it is recommend treating the rebars with Mapefer 1K after preparing the bars as indicated in the TDS.

Mapegrout T60 can be applied by wet spray or by hand from 10mm to 100 mm thick in one application. See the TDS for further information.

Mapegrout T60 is available in 25 kg bags.

Ancillary products used in Mapegrout T60 - Concrete Repair Mortar

- Mapefer 1K Zero - corrosion inhibitor for reinforcement bars and adhesion improver for concrete repair mortars
- Mapecure SRA - curing admixture to reduce hydraulic shrinkage.

Please refer TDS for further information on the areas of use, performance parameters and the application procedure of Mapegrout T60. 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

F2 Hazardous Building Materials: F2.3.1

Contributions to Compliance

B1 Structure, B2 Durability and C6 Structural Stability

- Mapegrout T60 meets the requirements defined by EN 1504-9 (“Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - General principles for use of products and systems”) and the minimum requirements claimed by EN 1504-3 (“Structural and non-structural repair”) for structural mortars of class R4.
- A qualified Structural Design Engineer should specify this product based on the structural requirements of the degraded concrete structure.
- Mapegrout T60 has A1 rating for Fire as per euro class EN 13501-1
- A Structural Design Engineer should review the NZ Building code clauses in reference EN 1504-3, SAA/SNZ HB84:1996 and NZS 3101:2006 for compliance.

F2 Hazardous Building Materials: F2.3.1

Mapegrout T60 is a blend of cement, sand, fibres, and additives. During application it has the same hazards as fresh concrete, hence proper precautions should be taken during handling. Read the Safety Data Sheet and follow the guidance provided. Personal Protective Equipment should be worn during mixing and application. Once set Mapegrout T60 is a non-hazardous product and does not emit any harmful gases or substances.

Scope and Design Requirements

The following design requirements should be observed:

- Specification of concrete repair mortars should be specifically undertaken by a qualified structural engineer after identifying the cause of degradation of the concrete structure/member and by selecting a relevant concrete repair mortar to meet the performance parameters 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 other Building Components.

Conditions and Limitations of Use

- To avoid shrinkage when Mapegrout T60 is curing in the open air, 0.25% of Mapecure SRA, a special admixture which has the property of reducing both plastic and hydraulic shrinkage, should be used.
- Mapecure SRA behaves like an internal curing agent and, thanks to its interaction with some of the main components which make up the cement, it helps to reduce shrinkage by between 20% and 50% compared with the standard values of the product without the admixture. This leads to a reduced risk of drying shrinkage cracking.
- Do not pour Mapegrout T60 into formworks for recasting repairs.
- Mapegrout T60 should not be applied on smooth surfaces. Prepare the surface thoroughly and add rebars if necessary. Read the TDS for further information on surface preparation.

Supporting Documentation

The following additional documentation supports the above statements:

Mapegrout T60 - Technical Data Sheet (317-7-2022)

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapegrou-t60>

Mapegrout T60 – Safety Data Sheet (09/06/2021 - version 2)

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapegrou-t60>

Mapegrout T60 – Declaration of Performance (09/06/2021 - version 2)

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapegrou-t60>

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Warnings and Bans

Mapegrout T60 is not subject to a warning or ban under section 26 of the Building Act 2004.

Version History

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