

Mapegrout Hi Flow SP

Building Product Information Requirements Compliance Statement

Date: 18/10/2023 (version 1)

Product Name: **Mapegrout Hi-Flow SP**

Product identifier: **Mapegrout Hi-Flow SP**

Product Line

Mapegrout Hi-Flow SP is a structural R4 class (EN 1504), shrinkage compensated, fibre reinforced, flowable, cement-based repair mortar for concrete repairs.

Product Description

Mapegrout Hi-Flow SP is a flowable, R4 class structural repair mortar, suitable for pouring into formworks without separation of aggregates. It is used for structural reinstatement of reinforced concrete beams and columns. The maximum aggregate size of Mapegrout Hi-Flow SP is 2.5mm. Thickness of application for box & pour application range from 8mm to 50mm. For thickness greater than the prescribed limit, it is recommended to add suitable graded aggregates from 30 to 50% by weight of product, after consultation with MBP (NZ) Limited's technical team. Once cured, Mapegrout Hi-Flow SP has very high flexural and compressive strength and has good adhesion to existing concrete.

Mapegrout Hi-Flow SP is available in 25 kg bags.

Ancillary products used with Mapegrout Hi-Flow SP 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
- F2 Hazardous Building Materials: F2.3.1

Contributions to Compliance

B1 Structure, B2 Durability and C6 Structural Stability

- Mapegrout Hi-Flow SP meets the requirements defined by EN 1504-9 (“Products and systems for Mapegrout High Flow SP the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - General principles for the 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 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.
- Mapegrout Hi-Flow SP has an A1 rating for Fire as per euro class EN 13501-1

F2 Hazardous Building Materials: F2.3.1

- Mapegrout Hi-Flow SP contains a mix of cement, sand, fibres, 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 product’s SDS and wear the recommend personal protective equipment. Once this product is set and hard Mapegrout Hi-Flow SP is a non-hazardous product and does not emit any harmful gases or substance.

Scope and Design Requirements

- Specification of Mapegrout Hi-Flow SP should be specifically undertaken by a qualified structural engineer after identifying the cause of degradation of the concrete structure/member and by selecting 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 Building Components
- For thickness greater than the prescribed limit, it is recommended to add suitable graded aggregates from 30 to 50% by weight of product, after consultation with MBP (NZ) Limited's technical team

Conditions and Limitations of Use

- Do not use Mapegrout Hi -flow SP for precision anchoring
- Do not use Mapegrout Hi- flow SP for applications by spray or trowel
- Mapegrout Hi-Flow SP 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:

Mapegrout Hi- flow SP - Technical Data Sheet (483-4-2015)

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapegrouthi-flow-sp>

Mapegrout Hi- flow SP - Safety Data Sheet (09/06/2021)

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapegrouthi-flow-sp>

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Warnings and Bans

Mapegrout Hi-Flow SP 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
VI 13/10/23	PM	PT	18/10/2023	New document