

## Mapefill SP

### Building Product Information Requirements Compliance Statement

Date: 28/11/2023 (version 1)

Product Name: **Mapefill SP**

Product identifier: **Mapefill SP**

#### Product Line

Mapefill SP is a single component, premium, super flow, non-shrink cementitious grout. It is used for pressure grouting of concrete structures, precision anchoring of machinery and metallic structures. It can also be used for grouting of machine baseplates, and bridge bearings. Mapefill SP complies with Part 6 of EN 1504

#### Product Description

Mapefill SP is pre-blended, cement based, non-shrink grout with 1 mm diameter graded aggregates, along with some additives and expansive agent. Mapefill SP is impermeable to water and has excellent adhesion to rebars and concrete and provides good resistance to dynamic and mechanical stress.

It can be used for grouting thickness of 60mm. For filling cavities that have dimensions greater than those indicated, add gravel with a maximum diameter of 8-10 mm not exceeding 30% by weight of Mapefill SP. It is recommended to undertake trial applications for large or difficult grouting applications.

Mapefill SP is available in 25 kg bags.

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](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**

- Mapefill SP meets all the main requirements defined by EN 1504-9 (“Products and systems for the protection and repair of concrete structures, definitions, requirements, quality control and conformity assessment. General principles for the use of products and systems”) and the minimum requirements claimed by EN 1504-6 (“Anchoring steel reinforcement”).
- A suitably qualified Structural Design Engineer should specify Mapefill SP based on grouting/anchoring requirements for the structure. Base plate grouting requires grout to have good expansion and flow characteristics in plastic state to overcome shrinkage and have an effective bearing area under base plate. Grout should be able to transfer the load from the metallic structure to concrete substrate, therefore the mechanical properties such as compressive strength and flexural strength should be higher than the mechanical properties of concrete substrate. Mapefill SP has expansion of up to 1%, good flow properties and compressive strength of 60 MPa at 28 days.
- As a cement based grout the durability of Mapefill SP is typically expected to be same as for concrete used in the same application.
- A Structural Design Engineer should review the NZ Building code clauses with reference to EN 1504-6, NZS 4210:2000 and NZS 3101:2006 to confirm compliance for each specific application.
- Mapefill SP has an A1 & A1<sub>FL</sub> rating for Fire as per euro class EN 13501-1
- F2 Hazardous Building Materials: F2.3.1 –Mapefill SP 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. Once this product is set and hard Mapefill SP is a non-hazardous product and does not emit any harmful gases or substance.

**Scope of Use and Design Requirements**

- Specification of cement based non-shrink grout, Mapefill SP should be specifically undertaken by a qualified structural engineer after identifying grouting/anchoring requirements for the structure.
- Specification should comply with the requirements of EN 1504-6, NZS 4210:2000, NZS 3101:2006.
- A qualified structural Engineer should check and confirm the compatibility of the product with Building Components.

**Conditions and Limitations of Use**

- Mapefill SP be installed up to 60mm thick. For higher thickness, please refer technical data sheet or contact technical services.
- Do not add cement or Additives to Mapefill SP
- Do not add water when mix begins to set.

**Supporting Documentation**

The following additional documentation supports the above statements:

**Mapefill SP - Technical Data Sheet (461-02-2023)**

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

**Mapefill SP - Safety Data Sheet (09/06/2021)**

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

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

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**Warnings and Bans**

Mapefill SP 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 28/11/2023	PM	PT	28/11/2023	New document