

Planitop HPC Floor

Building Product Information Requirements Compliance Statement

Date: 16/11/2023 (version 1)

Product identifier: **Planitop HPC Floor**

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Product Description

Planitop HPC floor is a single component, fibre reinforced, shrinkage compensated, high strength, high ductility, highly fluid cementitious mortar.

Planitop HPC Floor can be used for repairs and strengthening of reinforced concrete and horizontal members such as floor slabs. It can be used for repairs of industrial floors, roads, airport runways etc. The maximum thickness of 40mm in a single layer can be achieved without using steel reinforcement. For higher thickness the use of suitable steel reinforcement is required.

Planitop HPC floor is supplied in 25 kg bags.

Ancillary products used with Planitop HPC floor.

- Mapecure SRA – curing admixture to reduce hydraulic shrinkage

Please refer to the technical data sheet for areas of use, performance parameters and application procedure for this system.

Or request support at:

www.mapei.com/nz/en/technical-and-commercial-support

Relevant Building Code Clauses

Planitop HPC Floor complies with the following clauses of the New Zealand Building Code:

B1 Structure

B2 Durability

C6 Structural Stability

F2 Hazardous Building Materials:

MBP (NZ) Ltd.

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WE SUPPLY THE FOLLOWING MAPEI GROUP BRANDS AND SYSTEMS:



Contributions to Compliance

B1 Structure, B2 Durability and C6 Structural Stability

- Planitop HPC Floor complies with the principles defined in 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 requirements of EN 1504-3 (“structural and non-structural repair”) for R4-class structural mortars and the minimum requirements EN 1504-6 (“anchoring of reinforcing steel bar”).
- Planitop HPC Floor has been tested for Mechanical properties as per Certificate of Technical Assessment (CVT) n° 264/2020 released by 2nd Div. II of STC – CSLP
- Planitop HPC Floor has been tested for resistance to freeze-thaw cycles in presence of salt flaking as per EN 12390-0
- A qualified Structural Engineer should review the relevant NZ building code clauses stated in this document in conjunction with University of Brescia Test report, which will be shared on request by the design engineer to confirm compliance.
- Planitop HPC Floor has A1, A1_{FL} rating for Fire as per euro class EN 13501-1

F2 Hazardous Building Materials: F2.3.1

- Planitop HPC Floor contains a mix of cement, sand, expansive agents, and steel fibres. When the product is being applied, it has the same hazards as of fresh concrete therefore, appropriate health and safety precautions should be undertaken. Once the product is set Planitop HPC Floor is a non-hazardous product and does not emit any harmful gases or substance.

Scope of Use and Design Requirements

- Designing of repair /strengthening works and their location in the structure should be specifically undertaken by a qualified Structural Engineer.
- Specification of high-performance concrete should be specifically undertaken by a qualified structural engineer after identifying the cause of degradation of the concrete structure/member.
- Strengthening design on reinforced concrete structures should be undertaken in accordance with requirements of NZS 3101:2006 and NZS 1170:2002
- A qualified Structural Engineer must check and confirm the compatibility of the Planitop HPC Floor with other building components in the project.

Conditions and Limitations of Use

- A qualified Structural Engineer should confirm compatibility of Planitop HPC Floor outside of the information given in the TDS.
- A qualified Structural Engineer should design and specify Planitop HPC Floor in accordance with an applicable acceptable design standard.
- Planitop HPC Floor should only be applied by MBP (NZ) Ltd approved applicators who have been trained for application of Planitop HPC Floor.

Supporting Documentation

The following additional documentation supports the above statements:

Planitop HPC Floor - Technical Data Sheet (1119-8-2020-II)

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

Planitop HPC Floor – Test Certificate from University of Brescia can be made available on request.

Contact Details**Manufacture location**

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Warnings and Bans

Planitop HPC Floor 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 16/11/2023	PM	PT	13/03/2024	New document