

Planitop HPC

Building Product Information Requirements Compliance Statement

Date: 16/11/2023 (version 1)

Product identifier: **Planitop HPC**

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Product Description

Planitop HPC is a two component ultra-high-performance shrinkage compensated free flowing high ductility fibre reinforced cementitious mortar with steel fibres. Planitop HPC can be used for repairs and strengthening of concrete structures subjected to high stresses where high ductility is required. It can be used for seismic strengthening applications. A maximum thickness of 40mm in a single layer can be achieved without using steel reinforcement. For higher thicknesses the use of suitable steel reinforcement is required.

Planitop HPC is supplied in 25 kg bags (component A) and boxes containing 6.5 kg of Fibre HPC stiff metal fibres (component B)

Ancillary products used with Planitop HPC

- Mapecure SRA – curing admixture to reduce hydraulic shrinkage

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

Or request support at:

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

Relevant Building Code Clauses

Planitop HPC 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 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 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 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 has an A1, A1_{FL} rating for Fire as per euro class EN 13501-1

F2 Hazardous Building Materials: F2.3.1

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

Scope of Use and Design Requirements

- Designing of strengthening works and their location in the structure should be specifically undertaken by a qualified Structural Engineer
- Specification of Planitop HPC 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 with other building components in the project.

Conditions and Limitations of Use

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

Supporting Documentation

The following additional documentation supports the above statements:

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

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

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