

Class 1

Building Product Information Sheet

Product Name

FORTA-FERRO®

Product description and its intended use

FORTA-FERRO® is an easy-to-finish, colour blended fibre, made of 100% virgin copolymer/polypropylene consisting of a twisted bundle non-fibrillating monofilament and a fibrillating network fibre, yielding a high-performance concrete reinforcement system.

Product identifier (if applicable):

FORTA-FERRO® Code: I-FER54-1

Place of manufacture

USA

Legal and trading name of the manufacturer(s):

Forta Corporation

Address for service:

STREET NAME	100 Forta Drive	SUBURB	Grove City
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CITY, COUNTRY	Pennsylvania USA	POSTCODE	16127-6399
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Website:	www.fortacorp.com
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Email address:	info@fortacorp.com
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Phone No. (if applicable):	+001 724 458 5221
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Legal and trading name of the importer:

Stratmore Construction Solutions Limited			
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STREET NAME	185 Rata Street	SUBURB	Naenae
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CITY, COUNTRY	Lower Hutt New Zealand	POSTCODE	5011
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Website:	www.stratmore.co.nz
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Email address:	info@stratmore.co.nz
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Phone No. (if applicable):	+64 4 567 8436
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NZBN (if applicable):

9429040948867

Relevant Building Code clauses:

B1 Structure

B2 Durability: Performance B2.3.1a (50 years)

C Fire Performance

F2 Hazardous Building Materials: Performance F2.3.1

Statement on how the building product is expected to contribute to compliance:

FORTA-FERRO® fibre reinforcement for concrete, specified and installed in accordance with the technical data sheets, the application instructions and project specific details, will assist in meeting (in conjunction with the concrete and associated components) the following provisions (clauses) of the New Zealand Building Code:

B1 Structure: Compliance for concrete is determined by achieving 28 day compressive strengths in line with the concrete strength specified for the project. Concrete strength is determined by the concrete supplier. FORTA-FERRO® fibres at dosages specified for typical slab on ground applications will not affect the first-crack compressive strength of the specified concrete.

FORTA-FERRO® fibres increase the durability of the concrete by reducing or eliminating plastic shrinkage cracking in the first 24 hours after placing the concrete and increasing the impact and abrasion resistance of the concrete long-term. FORTA-FERRO® fibres when used at the specified dosage intercept and hold together cracks that may occur in the concrete throughout the concrete mass. FORTA-FERRO® fibres reduce the probability of cracking and should cracking occur, distribute cracking allowing load to be transferred across the cracks by the fibres, as the concrete contains additional capacity to distribute load. FORTA-FERRO® fibres therefore provide the reinforcement necessary to provide after crack strength and durability.

Specific design of the structure, including the concrete containing FORTA-FERRO® fibres is the responsibility of others.

B2 Durability: Performance B2.3.1a (50 years)

FORTA-FERRO® fibres, when incorporated into the concrete, are non-magnetic and cannot rust or corrode. FORTA-FERRO® fibres are specifically designed for the highly alkaline matrix of concrete and therefore will last for the life of the concrete.

Concrete durability is the responsibility of the concrete mix design, the placement, vibration, curing and coating as required and is the responsibility of others.

C Fire Performance

When incorporated into the concrete, FORTA-FERRO® will not alter the non-combustible classification of the concrete.

F2 Hazardous Building Materials: Performance F2.3.1

When incorporated into the concrete, FORTA-FERRO® meets this requirement and will not present a health hazard to people.

Limitations on the use of the building product:

The correct dosage of FORTA-FERRO® fibre reinforcement is related to several parameters: subbase design, concrete strength, concrete thickness, application and use (vehicles loading, internal loading), joint spacing (contraction and construction with dowels) amongst others. The technical data is to be read in conjunction with the project specific specification for FORTA-FERRO® that includes data and recommendations/precautions relating to the proposed application. The use of FORTA-FERRO® fibres does not guarantee a crack free slab.

Design requirements that would support the use of the building product:

FORTA-FERRO® fibres are combined with the concrete to form part of the complete concrete slab system which includes a range of other products including hardfill, dowels, anchors, insulation, supports, finishes, jointing systems, etc. As such, to ensure compliance with the relevant NZBC the concrete slab must be designed by a suitably qualified person familiar with the NZ Design Standards.

Supply of the concrete incorporating FORTA-FERRO® fibres should be by a certified ready mixed concrete supplier.

Construction of the concrete slab incorporating FORTA-FERRO® fibres shall be conducted by skilled tradespersons following the requirements of NZS3109 and standard trade practice.

Installation requirements:

The correct dosage of FORTA-FERRO® fibres per cubic metre of concrete is related to the project application and type. The design of the concrete slab is the responsibility of others however design parameters for the concrete will allow a project specific dosage and specification for the FORTA-FERRO® fibres to be made. FORTA FIBRES must be added to the concrete per the Fibre Reinforcement Guide from Stratmore Construction Solutions and in line with the concrete supplier's requirements.

Concrete incorporating FORTA-FERRO® should be supplied by a certified concrete supplier.

Maintenance Requirements:

FORTA-FERRO® fibres do not have any maintenance requirements.

Is the building product/building product line subject to warning or ban under section 26?:

Yes No

If yes, description of the warning or ban under section 26:

Date: 18 August 2023