

## Mapegrout 430 Zero

### Building Product Information Requirements Compliance Statement

Date: 12/10/2023 (version 1)

Product name: **Mapegrout 430 Zero**

Product identifier: **Mapegrout 430 Zero**

#### **Product Line**

Mapegrout 430 Zero is fine -grained, fibre reinforced, normal setting, thixotropic, structural R3 class (EN1504) of repair mortar for repairing concrete.

#### **Product Description**

Mapegrout 430 Zero is a preblended, shrinkage compensated R3 class structural repair mortar reformulated for excellent fatigue behaviour to give the repaired structures high level of resistance to cracking, when subject to dynamic loads induced during normal services conditions. The use of recycled materials, low clinker cement and cement replacements has helped in reducing CO<sub>2</sub> emissions. Mapegrout 430 Zero can be applied using continuous feed rendering machine or with a trowel or by hand. It can be applied in thickness ranging from 5mm to 40mm.

Mapegrout 430 Zero is available in 25 kg bags.

Ancillary products used with Mapegrout 430 Zero include:

- Mapefer 1K Zero - Corrosion inhibitor for reinforcement bars and adhesion improver for concrete repair mortars
- Mapecure SRA - Curing Admixture to reduce hydraulic shrinkage.

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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## **Relevant Building Code Clauses**

### **B1 Structure**

### **B2 Durability**

### **C6 Structural Stability**

### **F2 Hazardous Building Materials: F2.3.1**

## **Contributions to Compliance**

- Mapegrout 430 Zero 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 minimum requirements for EN 1504-3 (“Structural and non-structural repair”) for R3 class structural repair mortars
- 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 430 Zero has an A1 rating for Fire as per euro class EN 13501-1
- F2 Hazardous Building Materials: F2.3.1 - Mapegrout 430 Zero 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. Once this product is set and hard Mapegrout 430 Zero is a non-hazardous product and does not emit any harmful gases or substance.

## **Scope and Design Requirements**

- Specification of Concrete Repair Mapegrout 430 Zero 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.

**Conditions and Limitations of Use**

- To avoid shrinkage when Mapegrout 430 Zero is drying in open air, 0.25% of Mapecure SRA, a special admixture which has the property of reducing both plastic and hydraulic shrinkage, should be used.
- Do not use Mapegrout 430 Zero for recasting in formwork or for repairs of structures subjected to intense compressive loads or high abrasion.
- Mapegrout 430 Zero 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 430 Zero - Technical Data Sheet (1298-3-2023-III)**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapegrou-430-zero>

**Mapegrout 430 Zero - Safety Data Sheet**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapegrou-430-zero>

**Mapegrout 430 Zero - Declaration of Performance**

<https://www.mapei.com/nz/en/products-and-solutions/products/detail/mapegrou-430-zero>

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**Warnings and Bans**

Mapegrout 430 Zero 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>Checked by</b>	<b>Date issued</b>	<b>Changes from previous version</b>
V1 12/10/23	PM	PT	12/10/2023	New document