

weber.tec ripara60



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PRODUCT CHARACTERISTICS

Thixotropic mortar for restoring, repairing and protecting structural elements made of reinforced concrete.

- Excellent workability, even in overhead applications (floor beams, beams...), with no bowing, dripping or loosening
- Mechanical properties are similar to concrete
- Excellent adhesion to substrate
- Non-shrink properties, which prevent hairline cracks
- Good surface finish if smoothed with a sponge float while material is still plastic
- Mechanized application for small jobs (for applications on large surfaces, use **weber.tec BT218**).

weber.tec ripara60 is a thixotropic mortar for restoring, repairing and protecting structural elements made of reinforced concrete. It consists of extra-strong, cement-based binders, selected aggregates, synthetic microfibers and special additives. **weber.tec ripara60** is formulated to offer perfect adhesion to the substrate and to reinforcement bars without producing cracks between restored and existing parts. After curing, **weber.tec ripara60** creates an alkaline environment that protects reinforcement bars. And thanks to the low porosity of the cement matrix, it also protects against attack by air pollutants.

Packaging:

25 kg bag

Appearance:

Grey powder

Shelf life:

- Validity of performance specifications: 12 months, if kept in a dry place in the original unopened package
- Product complies with point 47 of Attachment XVII to Reg. 1907/2006 (REACH), as indicated on the package

Yield per package:

1.3 m² per cm of thickness

APPLICATIONS

Restoration of unsound structures made of reinforced concrete.

Possible applications:

- Volumetric restoration of structural elements damaged by oxidation of reinforcement bars, such as edges of beams, pillars, partitions in reinforced concrete, and foundations
- Localized levelling and filling of surfaces after removal of gravel clumps, spacer bars, anchor holes, protruding bars, and in cases of missing armature cover
- Restoration of areas subjected to abrasive wear
- Repair of prefabricated structures

Do not apply on:

- Plaster substrates
- Surfaces that have been painted or treated with products which limit adhesion

MATERIAL SPECIFICATIONS

Reconstruction and protection of missing sections of beams or pillars made of deteriorated reinforced concrete; repair of damaged sections of interior and exterior floors, steps, cornices, balconies and frontages using **weber.tec ripara60** thixotropic, fibrous cement mortar by Weber, with compensated shrinkage and consumption of 19 kg/m² per cm of thickness, to be mixed with water only. With a maximum granulometry of 1.4 mm and resistance to compression after 28 days of 60 N/mm², this product can be applied in a thickness of up to 5 cm in a single coat.

APPLICATION SPECIFICATIONS*

Mix water percentage: 18-20%

Pot life: 60 minutes

Minimum thickness: 1 cm

Maximum thickness per coat: 5 cm

Maximum thickness on wall: 10 cm

Maximum thickness on ceiling: 8 cm

Yield:

1.9 Kg/m² per cm

TECHNICAL DATA *

Granulometry: 1.4 mm

Mass per volume of hardened product: 2.1 kg/litre

Adhesion on concrete: >2 MPa

Compression strength after 28 days: 60 N/mm² (EN 1504-3, strength class R4)

Bending strength after 28 days: ≥ 9 N/mm²

Chloride ion content: 0.05 %

Bond strength: 2 MPa

Impeded shrinkage/expansion: 2 MPa

Resistance to carbonatation: TEST PASSED

Modulus of elasticity: 25 GPa

Thermal compatibility Part 1-freeze/thaw: 2 MPa

Slip resistance: NA

Capillary absorption: 0.5 Kg.m⁻².h^{-0.5}

Reaction to fire (Class): A1

**These values were obtained in laboratory tests under controlled conditions and may be substantially influenced by conditions in the application area.*

PRECAUTIONS AND RECOMMENDATIONS

- Temperature range of application: +5°C to +35°C
- Do not apply on surfaces that are frozen or in the process of thawing, or where there is a risk of freezing within the next 24 hours
- Avoid application in direct sunlight
- Do not use damaged or open bags
- Do not add lime or cement to the product, and do not add more water than specified in the instructions
- Do not use the product after it begins to harden
- Do not add water or stir while the mixture is setting
- Before painting directly on the product, make sure the surface is perfectly dry

APPLICATION CYCLE

Surface preparation:

After preparation using a method that is compatible with the article being serviced (mechanical cleaning, pressure cleaning, sandblasting, etc.), the substrate must be compact, free from dust and free from all loose or loosening material. The reinforcement bars must be clean and free from rust, after removal with suitable tools.

Carefully wet the surfaces being restored just before product is applied.

Mixing the product:

Using a slow-speed drill or a cement mixer, mix one bag with 4.5-5 litres of water. When mechanized application is used, adjust the flowmeter to obtain a stiff, plastic mortar. Do not add more water than specified to **weber.tec ripara60** and use it as an injection mortar (for this purpose, use only **weber.tec CS206** super-fluid mortar).

Application

A) Treat iron surfaces with **weber.tec fer** passivating liquid mortar and, after it sets, apply a second coat of **weber.tec fer** on the entire surface to be repaired (on both metal reinforcements and concrete substrates), so that an adhesive undercoat is created for subsequent application of **weber.tec ripara60**.

B) Within 2 hours of applying the second coat of **weber.tec fer** (and before it hardens), apply **weber.tec ripara60** with a trowel. Be sure to press firmly on the substrate.

C) **weber.tec ripara60** can be applied in one or more consecutive coats, as long as the thickness of each coat does not exceed 5 cm. Allow enough wait time to suit environmental conditions.

D) Smooth while product is setting.

E) For final decoration, use **weber.tec flex L** anticarbonatation paint or **weber.tec flex R** anticarbonatation coating.

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