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Ref.	Description
MR601	R4 REPAIR MORTAR

## DESCRIPTION

- REPAIR mortar based on hydraulic binders, aggregates with precise and selected grain size, chemical additives and synthetic fibres.

- It has the compulsory **CE** marking by virtue of that stated in Regulation (EU) 305/2011 on construction products and in accordance with standard EN 1504-3:2005.



## FIELD OF APPLICATION

- **MASTEC® R4 REPAIR MORTAR** is appropriate for:
  - Repairing concrete elements: bridges, structures, tunnels, etc.
  - Concrete structure reinforcement, restoration and maintenance works.
  - Interiors and exteriors, vertically and horizontally.
  - A **sulphur resistant** version of the product is available on demand.

## PROPERTIES

- Fast setting.
- Thixotropic.
- Compensated retraction.
- Good mechanical strength.
- Convenient workability.
- Optimum durability.
- Framework protection.
- Sulphur resistant (optional).

## METHOD OF USE

### Preparation of the Support

- The support must be resistant and stable.
- Must be completely clean, without any remains of dust, grease, oil, mould release oil, paint, etc.

- In the case of rusty frameworks, eliminate the layer of rust in an adequate manner and treat with protective primer before applying **MASTEC® R4 REPAIR MORTAR**.

- The use of a bonding mortar is recommended to ensure optimum adherence.

### Product Kneading

- Knead with approximately 18% of water (4.5 litres of water per 25 kg sack), using a mechanical mixer at low revs, until achieving homogeneous mass without lumps.

- Only prepare the amounts that can be used during the pot life of the fresh mortar (5 min. aprox. depending on weather conditions).

### Product Application

- Slightly mix again **MASTEC® R4 REPAIR MORTAR** and apply using a trowel.

- Recommended application thicknesses:

- Walls: between 5 mm and 50 mm
- Floors: between 15 mm and 100 mm

- In the cases in which applying greater thicknesses is necessary, execute successive layers while always respecting the previous limits for each individual layer.

- When applying a mortar layer over the previous one, wait for the first layer to set and use a bonding mortar to ensure the adherence between both layers (the bonding mortar must remain fresh while applying the mortar over it).

- Trowel to achieve the final finishing.

### Curing of the Product

- After applying, protect the area from sunlight, wind, intense rain, etc.

- The areas exposed to air will be covered with moist sackcloths or sprayed with water for 2 or 3 days.

## RECOMMENDATIONS AND PRECAUTIONS

- Do not apply on frozen supports or if freezing is expected.

- Do not add more water than that necessary, not even to knead again once the setting commences. This

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would cause the mixture to segregate and lower mechanical resistance.

- 25 kg paper sack with plastic film.

- Do not add other products to **MASTEC® R4 REPAIR MORTAR**.

## CONSUMPTION

- **MASTEC® R4 REPAIR MORTAR** consumption will be of approximately 16 kg/m<sup>2</sup> per centimetre of thickness applied.

## SAFETY AND HYGIENE

- This product contains cement. Cement is an irritant to the eyes, respiratory paths and mucous membranes.
- The paste gives a high pH when mixing the product with water. Therefore, it may irritate the skin in the case of prolonged contact, causing lesions to the eyes in the case of projections.
- Avoid contact with the skin and mucous membranes.
- No smoking, eating or drinking in the premises where the product is used.
- Avoid dust dispersion.
- The appropriate individual protection equipment for each case will be used.
- Persons with sensitive skin backgrounds should not handle this product.
- For more information check the file Product Safety Data File.

## TECHNICAL CUSTOMER SERVICE

- It is recommended the appropriate product is used for each application in accordance with the Technical File.
- Please check with our Technical Customer Service in the case of any doubt regarding the selection, handling or application of the different products.
- Our Technical Department will deal with and study each case if it were necessary to use a specific product, according to the use, colour, specifications, etc., or for placing special pieces or formats.

## SUPPLY

[www.morterostudelaveguin.com](http://www.morterostudelaveguin.com)

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## STORAGE AND CONSERVATION

- The product maintains its characteristics in a dry place protected from freezing, humidity, direct sunlight, etc.:
  - Sack: 12 months.

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## TECHNICAL CHARACTERISTICS



### BASIC CHARACTERISTICS – CE MARKING EN 1504-3:2005

Specification	Value	Test Method
Reaction to fire	A1 /A1fl	Decisión 96/603/CE
Chloride content	< 0.05 %	UNE-EN 1015-17
Compression strength (N/mm <sup>2</sup> )	≥ 45	UNE-EN 12190
Bond strength 28 days (N/mm <sup>2</sup> )	≥ 2.0	UNE-EN 1542
Thermal compatibility: bond strength after freezing/unfreezing cycles with immersion in ice salts (N/mm <sup>2</sup> )	≥ 2.0	UNE-EN 13687-1
Capillary absorption coefficient (kg/m <sup>2</sup> h <sup>0.5</sup> )	≤ 0.5	UNE-EN 13057
Resistance to carbonation Dk ≤ control concrete type MC(0.45)	Pass	UNE-EN 13295
Resistance to slipping (transport areas)	<b>Dry</b> 96	UNE-EN 13036-4

### OTHER TECHNICAL DATA

Specification	Value	Test Method
Approximate water for kneading	18 %	-
Apparent density when fresh	1900 ± 100 kg/m <sup>3</sup>	UNE-EN 1015-6
Application temperature	5 °C - 30 °C	-

#### NOTE:

*Dosage and application outside that described in this file will exclude our responsibility regarding the product and its application.*

*The results stated were obtained in tests performed under standard conditions and may vary in terms of on site installation conditions.*

*Please contact our Technical Department for more information.*

*All the product application indications are based on our current experience and knowledge, with the client being responsible for the final study for on site installation.*



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