



Certified Quality System since FEBRUARY 1

RAPIDO GRIP 613 mono



SHRINKAGE COMPENSATED REPAIR MORTAR WITH INVERTED SETTING TIME: THE LOWER THE TEMPERATURE, THE FASTER THE SETTING TIME

approved - Certificato n. 1305 - CPD - 0808 EN 1504-3 Classe R3

Description RAPIDO GRIP 613 is cement based pre-mix, ready to use, which forms an easy to apply mortar after mixing with water. The rapid set of the product allows repairs in 5 to 10 minutes. The applied product shall have optimal adhesion and durability, is impermeable to water, and has high mechanical resistances, initially and on long term. The product does not contain expansive metal compounds.

Advantages and • characteristics

- The set is faster with decreasing temperature, which allows fast repair jobs, even in very unfavourable conditions.
- Optimal adhesion to the substrate, easy to apply to difficult substrates, on the interior parts of by-passes, soffits.
- Easy to apply with the equipment, normally used to apply this type of renders.
- The fast set and hardening allow the finishing of either which repair job, or the movement of any repaired ornament after only a few minutes.
- Excellent resistance against chemical attack.
- Good resistance to water penetration
- High mechanical resistance values, dimensional stability, no bleeding.

Fields of use •

- Structural repairs of deteriorated concrete (renders, structural repairs of the surface, soffits...) for which it is a benefit to have a fast setting and hardening mortar.
- Local repairs to by-pass, pillars, beams, ..., when the concrete needs repaired from 5 mm to 5 cm thickness or more.
- For the rapid fixing and sealing of tubes, bolts,...etc.

RAPIDO GRIP 613 is grey or white coloured or formulated "ad hoc" for the creation or the modelling of different creations and structures:

- Thematic areas (like the Valle dei Re in Gardaland)
- Amusement park
- Artificial rocks
- Water courses
- others

Method of use Preparation of the substrate

The substrates have to be well prepared, and sound, free from all substances which interfere good adhesion (oil, grease, waxes, dirt,...) . Saturate the substrate with water, especially for small repairs, and in hot and windy conditions. Start already a longer period before the application to humidify the substrate completely. The excess water has to be removed with a sponge, immediately before the application of RAPIDO GRIP.

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Method of application

Mix RAPIDO GRIP 613 with water or with the RMB in ratio from 14 to 16% calculated on the powder.

Mix well during about 45" - 1', or till a homogeneous and lump free mortar is obtained. Start with the approximate amount of liquid required, a little less than suggested. When mixed, adjust the consistency by adding the missing liquid. Note that the liquid demand can fluctuate a few percent, depending on the ambient conditions.

N.B. Prepare only the amount of mortar which can be applied in 5 minutes. Do not add any water or remix when the setting has already started.

Apply by trowel like normal cement based products, shape according the desired repair, and finish with a sponge.

After the application, and even before the final setting, keep the fresh repair substrate wet during the first 24 hours in order to prevent drying out of the mortar. This is especially needed in case of hot temperature and wind (than an optimal result can be obtained when keeping the substrate of the repair wet during 3-4 days.).

- Remarks Use the product in the season indicated on the bag.
 - Do not apply when temperature is lower than +1 ℃.
 - Inverted setting time = in winter climate, if the product set too fast, it is possible to lengthen the workability time for some minute, using "hot" mixing water (30 − 60 °C).
 - Inverted setting time = in extremely hot conditions, keep the bags in the shade and use cool mixing water; otherwise the product will not reach its rapid setting properties.
 - Information according to 2003/53/CE:

Storage: The product can be kept for at least 12 months if stored in dry and protected conditions, in the original packaging, between +5°C and + 35°C.

Do not use the content of opened bags if the powder is agglomerated in lumps

Packaging Bags of 25 Kg.

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Technical characteristic (typical values)

Technical • Initial setting time: about 10 minutes

characteristic • Mixing water: 14 ÷ 16 %

		RAPIDO GRIP 613 mono
 Compressive strength 	N/mm ²	18 (1d.) 50 (28 d.)
 Flexural strength 	N/mm ²	4 (1d) 10 (28 d.)
ELASTICITY MODULUS	N/mm ²	19.000 (28 days.)
 Adhesion to concrete 	N/mm ²	1,5 ÷ 2,5 (28 d.)
Pull-out rebars	N/mm ²	> 10 (28 d.)
Carbonation in time	8 years mm	2
	18 years mm	10
	25 years mm	14
 Resist. to CO₂ penetration 	μ	990
 Water vapour permeability coeff. 	μ	60
 ① Res. FROST/THAW 	gr/m²	505
② Permeab. To CHLORIDES	Coulomb	630
Type mortar		Thixo mortar
 N. components 		Mono
 Advised layer thickness 	mm	5 ÷ 50
 Application 		by hand
Curing : wet		SE
 Curing : protected 		SE
Typical application		rapid repairs
Setting time		Inverted setting time, fast set
 Hardening 		Accelerated
Shrinkage compensation		YES
Consumption	Kg/m ² /mm	1,85



Safety Read carefully the safety indications on the packaging, or consult the relevant Material **indications** Safety Data Sheet of this product.

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage.

Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below. Changes of this data sheet can be found in our web-site www.tecnochem.it where you can find the same technical data sheet updated in real time.

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