



Advanced  
Pavement  
Systems



Certified Quality System since **FEBRUARY 1993**

*From Project to Jobsite*

## MAX RAPIDO

### FAST DRYING BINDER WITH FAST SETTING TIME FOR SLAB

**Description** Rapid setting cementitious compound for the installation of fast drying screeds after mixing with water and specified aggregates.

**Advantages and characteristics** The fast foot traffic resistance and rapid drying out allow fast flooring operations even with materials which are sensitive to the moderate residual moisture in other screeds, like parquet, linoleum, resin based products ...

**Fields of use** For the preparation of subfloors, with minimum thickness of 4 cm and maximum 8 cm, on the existing floorslab, internally and not subjected to capillary rising humidity.

**Method of use** **Preparation of the substrate**

The substrate must be prepared in lanes and levelled out in such a way to allow a fast levelling of the product. It is essential to create dilatation joints between slab and walls as for a normal cement based slab.

It is also necessary that the substrate is not absorbing too much water from the slab. Therefore, on porous and absorbing substrates, apply first preventively, one or more applications by brush of the water based emulsion RESINA PER MALTE BICOMPONENTI followed by the pouring of the slab.

**Application method**

The product shall be mixed in a concrete-mill or with a suited mechanical mixer (we advise a vertical axis mixer), adding water and aggregates as per a normal cement based product. Mixing for 2-3 minutes till the mortar is homogeneous. Apply the product within 15 to 30 minutes (depending on the temperature en the particular jobsite conditions). The advised dosage of MAX RAPIDO is about 400 Kg/m<sup>3</sup> with washed and selected aggregates with dimensions from 0 to 8 - 10 mm, well distributed (Fuller or Bolomey curve). The amount of mixing water depends on the humidity of the aggregates, and must be sufficient to create a "wet-earth" consistency of the mortar. For hand applications, a more fluid consistency can be prepared (use about 5-7 litre per bag of 20 kg).

The slab must be applied as "free-floating" (therefore foresee a plastic sheet on the substrate) or following the substrate slab. The thickness must be between 4 and 8 cm. In both cases (free floating or in contact to the substrate) it is advisable to apply a reinforcement net or steel with opening 25-30 mm, in the middle of the thickness to be applied.

When the slab is applied directly onto the substrate, it is advisable to apply first a key-coat (2-3 mm) of MAX RAPIDO mixed with the water based polymer ADHEWAT instead of water, in order to achieve better adhesion, and pour the product, while this key-coat is still wet.

When the slab can just resist foot traffic, it can be finished by floating by helicopter (attention : the initial setting time can be accelerated and special care must be taken to start floating operations at the correct moment).

- Remarks**
- Do not apply at temperature lower than +5°C.
  - 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 lumps occur.



**Advanced  
Pavement  
Systems**



Certified Quality System since **FEBRUARY 1993**

## From Project to Jobsite

**Packaging** 20 kg bags

**Technical characteristic (typical values)** (average values on slabs with aggregates curve 0-8 mm and “wet earth” consistency)

• Apparent specific weight:		2300 gr/litre
• Initial and final setting time:		35 min/60 min
• Compressive strength	N/mm <sup>2</sup>	20 (1 d.) 60 (28 d.)
• Flexural strength	N/mm <sup>2</sup>	2 (1 d.) 6 (28 d.)
• ELASTICITY MODULUS	N/mm <sup>2</sup>	20.000 (28 d.)
• Adhesion to concrete	N/mm <sup>2</sup>	1 (28 d.)
• Pull-out rebars	N/mm <sup>2</sup>	> 5 (28 d.)
• Water vapour permeability coeff.	μ	50
<hr/>		
• Type mortar		Micro-concrete
• N. components		Mono
• Advised layer thickness	mm	40÷80
• Application		casting
• Curing : wet		NO
• Curing : protected		SE
• Typical application		underfloors
<hr/>		
• Setting time		Accelerated
• Hardening		Rapid
• Shrinkage compensation		NO
• Consumption		350÷400 Kg/m <sup>3</sup>

1N/mm<sup>2</sup> = 1MPa = 10,19 Kg/cm<sup>2</sup>

\* the formulation for this type of products can be also made with the addition of corrosion inhibitors and MuCis<sup>®</sup>.

① Freeze and thaw resistance in the presence of salt: SIA 162 11/91 (< 600 gr/sm= very high freeze and thaw resistance)

② Chlorides permeability: FH WA RD/81 (100 ÷ 1000 COULOMB = very low chlorides permeability)



**Safety indications** Read carefully the safety indications on the packaging, or consult the relevant Material 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](http://www.tecnochem.it) where you can find the same technical data sheet updated in real time.

Emission date : 01/2006  
Revision date: 12/2011

Rev.N.1

MAX RAPIDO  
pag. 2/2

**TECNOCHEM ITALIANA S.p.A.**  
24030 BARZANA (BERGAMO) ITALY – VIA SORTE 2/4,  
TEL. \*\*39 035 55.48.11 – TELEFAX \*\*39 035 55.48.16  
E-mail: [info@tecnochem.it](mailto:info@tecnochem.it) - [www.tecnochem.it](http://www.tecnochem.it)