

MasterEmaco P 4000

One-component, fluid cementitious mortar, suitable for casting joints with a high structural function, even in the presence of humidity and up to temperatures of -5 ° C.

MATERIAL DESCRIPTION

MasterEmaco P 4000 is a special very fine, single-component cement mortar that mixed with water gives a mixture of excellent workability for construction joints. Not resin based, it ensures better compatibility with substrates, longer durability and easier application, also from the operators' health point of view.

FIELDS OF APPLICATION

MasterEmaco P 4000 is designed for construction joints by casting, between fresh and hardened concrete.

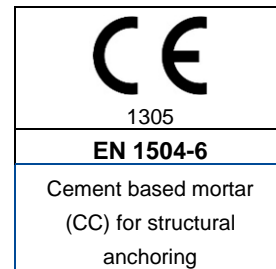
FEATURES AND BENEFITS

The particular features of MasterEmaco P 4000 are:

- MasterEmaco P 4000 meets the acceptance limits indicated in UNI EN 1504 part 6, and is CE marked;
- Product application is simple and less restricted to ambient temperatures, problem which often limits the use of traditional structural resins, especially below 10°C; it can be applied up to -5°C;
- High chemical and "monolithic" compatibility with the substrate (similar elastic modules, similar thermal expansion coefficients), problem which often limits the use of traditional structural resins and which does not ensure obtaining a monolithic type of substrate-anchoring agent set;
- Longer durability, greater adhesion and high mechanical performances in general;
- Easy to use, free from unpleasant odours typical of traditional resins;
- It can be applied on damp substrates, problem which often limits the use of traditional structural resins;
- High resistance to high temperatures (e.g. in case of impact and fire) due to the nature of the anchoring agent;

In compliance with the European Regulation (EU No

305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 1504-6 and the relative DoP (Declaration of Performance).



CONSUMPTION

1,4 ÷ 2,0 kg/m² depending on the roughness of the substrate.

PACKAGING

Available in 10 kg bags.

STORAGE

Store the product in a dry and sheltered place at a temperature anywhere between 5 and +30°C.

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Essential characteristic in accordance to 1504-6		Performances
Adhesion	primer-concrete (tipo C 0,40), UNI EN 1542	A 28 dd > 3.0 MPa
Compressive strength	UNI EN 12390/3	1 d > 20 MPa 28 dd > 55 MPa
Tensile strength in bending	UNI EN 196-1	1 d > 4 MPa 28 dd > 8 MPa
Elastic modulus	UNI 6556	A 7 dd 20.000 (± 2.000) MPa
Resistance to the extraction of the bars steel - displacement relative to a load of 75 kN (mm):	UNI EN 1881	<0.6

APPLICATION SHEET

TEMPERATURE

MasterEmaco P 4000 can be used with an ambient temperature ranging from -5°C to +35°C. When the temperature at the time of the application is between -5 and +5°C, mechanical resistances develop more slowly. We recommend using mixing water with a temperature ranging from +18 to +25°C.

If the temperature at the time of the application is between +30 and +35°C, we recommend using low temperature mixing water (+5 ÷ +10°C) and apply the product in the cooler hours of the day.

PREPARING THE SUBSTRATE

The surfaces on which MasterEmaco P 4000 will be cast must be prepared by sandblasting or scarification and then cleaned with compressed air. Substrates must be moistened but free from backwater.

Also make sure to verify the absence of ice or sim. on the construction joint surface in the presence of temperatures below zero.

MIXING

Using a low speed power drill mix the entire content of the bags with the minimum amount of water provided (equal to 18%) for 3-4 minutes, until a smooth mixture free of lumps is obtained. Then add more water is needed (without exceeding the maximum provided of 21%).

APPLICATION

Apply it using a brush, roller or by spraying on the previously prepared surface (see previous paragraph).

The construction joint must take place on the MasterEmaco P 4000 mortar before it hardens, respecting the following coating times:

- 10°C within 2 hours
- 20°C within 60 minutes
- 30°C within 45 minutes

SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website www.master-builders-solutions.com/it-it or contact infomac@mbcc-group.com.

Scan the QR code to visit the product page and download the latest version of this datasheet.



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Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

Master Builders Solutions Italia Spa

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For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.