

MasterEmaco A 400

Liquid additive SRA (shrinkage reducing agent) for the packaging of cement-based mortars expansive to the air and which allows to improve the curing.

MATERIAL DESCRIPTION

MasterEmaco A 400 is a special liquid additive specially designed for expansive air-based and premixed cement-based mortars, which improves curing and reduces shrinkage in the plastic and hygrometric phase. MasterEmaco A 400 does not contain chlorides.

FIELDS OF APPLICATION

MasterEmaco A 400 can be added to repair mortars and for structural reinforcement and, in particular, in cases where the design requires a control of medium and long curing cracking phenomena.

The addition of MasterEmaco A 400 is recommended above all for restorations with large surfaces exposed to the air and in the absence of proper curing such as:

- industrial flooring;
- parking;
- warehouses;
- hydraulic structures subject to cavitation or solid transport;
- beams and pillars;
- structure in general.

FEATURES AND BENEFITS

MasterEmaco A 400 has the property of overall decreasing the surface tension of the water enclosed in the capillary porosities in the matrix. This results in a lower attractive force between the walls of the capillary pores and consequently a lower hydraulic shrinkage. MasterEmaco A 400 is therefore used to improve air expansion in the absence of wet maturation, a condition not always achievable on site (Figure 1). This guarantees the reduction of plastic and hygrometric shrinkage and, consequently, the formation of micro-cracks and fissures (figure 2). In this way it is possible on the one hand to reach problems of imperfections of the products, on the other hand, by reducing the formation of micro-cracks, it allows to install a mortar or concrete more resistant to the action of degradation by aggressive agents, chlorides, sulphates, carbon dioxide, coming from outside.

The addition of MasterEmaco A 400 reduces warping phenomena and allows greater maintenance of workability in summer climates.

MasterEmaco A 400, depending on the dosage, like all additives in this category, can reduce mechanical performance;

CONSUMPTION

Minimum dosage: 0.25% on the weight of the powder. Different dosages are possible in relation to the specific working conditions, and in any case after consulting the technical staff of Master Builders Solutions Italia Spa.

PACKAGING

MasterEmaco A 400 is available in 5 kg canister.

STORAGE

Store the product in a dry and sheltered place at a temperature anywhere between 5 and +35°C.

APPLICATION

MasterEmaco A 400 is a ready-to-use liquid that is introduced during the mixing phase of the cement mixture (minimum dosage: 0.25% of the weight of the powder) after having loaded and amalgamated all the other ingredients.

Mix until a homogeneous mixture is obtained.

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Technical Information	
Form	Colorless liquid
Main action	Reduction of plastic and hygrometric shrinkage
Density	0.91 g / cm ³

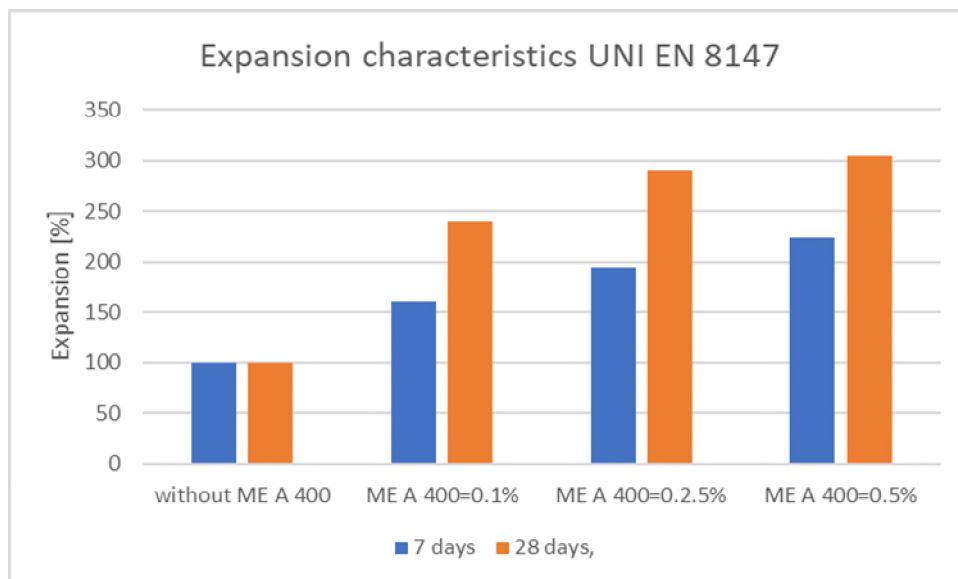


Fig. 1 Values obtained on cement-based mortar type CEM I 52.5 R, normalized sand and water, according to composition indicated in standard EN 196-1

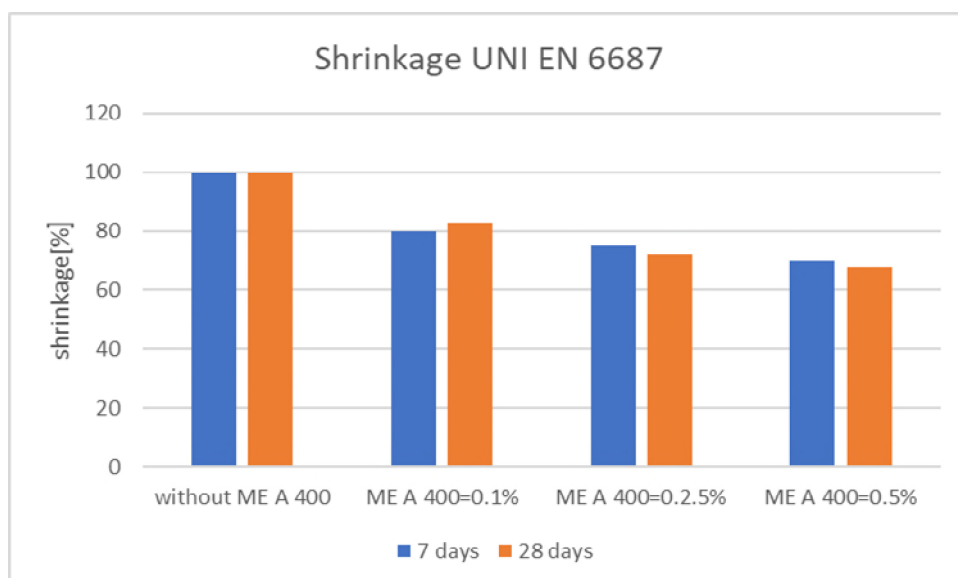


Fig. 2 Values obtained on cement-based mortar type CEM I 52.5 R, normalized sand and water, according to composition indicated in standard EN 196-1

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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.

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.