

MasterCast 727

Compaction aid and water repellent admixture.

Material description

MasterCast 727 is a low viscosity emulsion to be used as a high-performance integral waterproofer for wet or dry cast concrete, having additionally a plasticizing effect. It promotes easier compaction of the concrete elements produced by vibro-compression. On curing it provides a waterproof surface/product with minimum effect on the original appearance and texture.

4 Value

MasterCast 727 is a key component to Master Builders Solutions 4 VALUE concept.

4 VALUE considers the four elements essential for Manufactured Concrete Products:

- economics,
- performance,
- aesthetics,
- durability.

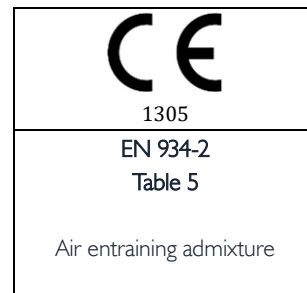
Fields of Application

- Paving stones.
- Concrete bricks, blocks.
- Precast wet or dry concrete.

Benefits

- Improves frost resistance.
- Improves fillability and compactability of the concrete.
- Improves the surface finishing of the elements.
- Reduces efflorescence development.
- Reduces water permeability.
- Improves colour retention.

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 934-2 and the relative DoP (Declaration of Performance).



Dosage rate

Dosage rates will depend on the type of product, mix and degree of waterproofing required.

The normally recommended dosage rate is:

By volume – 0.4 to 2.0 liters per 100 kg of cement (binder). Users should carry out trials with their mix to achieve the optimum dosage.

Other dosages may be used in special cases according to specific job site conditions. In this case please consult our Technical Services Department.

Packaging and storage

MasterCast 727 is available in 10L cans, 1.000L tanks and in bulk delivery.

MasterCast 727 must be stored indoors in a place where temperature does not drop below + 5°C.

If product has frozen, thaw at + 30°C and agitate until complete reconstitution. Store under cover out of direct sunlight and protect from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

For specific storage advice, consult our Technical Services Department.

Shelf life

12 months if stored in accordance with manufacturer's instructions in unopened containers.



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Technical Information	
Form	Emulsion - White liquid
Relative density (g/ml at 20°C)	0.997 ± 0.02
Essential characteristic in accordance to EN 934-2	Performance
Chloride ion content	≤ 0.1% by mass
Alkali content (Na ₂ O equivalent)	≤ 2.0 %
Corrosion behaviour	Contains component only from EN 934-1: 2008 Annex A. I
Compressive strength	28 days ≥ 75%
Air content (entrained air)	Comply 5
Air void characteristic	≤ 0.200 mm

Directions for use

Add to the mix with the mixing water. Some water reduction may be experienced. Setting times and strength development are unaffected. All cast products should be protected from rain for 24-36 hours after casting to allow the MasterCast 727 to develop full waterproofing.

Products made incorporating MasterCast 727 can be cured at elevated temperatures and/or humidity's (not steam). Do not cure products in water.

Safety information

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 additional technical information, brochures, references, technical reports and technical support please visit www.master-builders-solutions.com/it-it or alternatively contact infomac@masterbuilders.com.

Scan QR code to visit the product page and download the latest version of this technical data sheet and any additional documentation.



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Disclaimer

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.

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.

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