

MasterRheobuild 1000

High-range water reducing admixture, strength enhancing superplasticizer for rheoplastic concrete.

Material description

MasterRheobuild 1000 is a water-soluble, sulphonated polymer based admixture which allows mixing water to be reduced considerably and concrete strength to be accelerated significantly, particularly at early ages.

MasterRheobuild 1000 imparts rheoplastic qualities to concrete.

MasterRheobuild 1000 is chloride free, meets EN 934-2 and it is compatible with all cements meeting the EN 197-1 standards.

Benefits for Ready-mix producer

MasterRheobuild 1000 provides high quality, rheoplastic-flowable and non-segregating concrete. This is not only because of the high strength that it develops, but also because of its high impermeability, durability and dimensional stability (high elastic modulus, low shrinkage and creep).

MasterRheobuild 1000 is advised for all low temperature concreting applications.

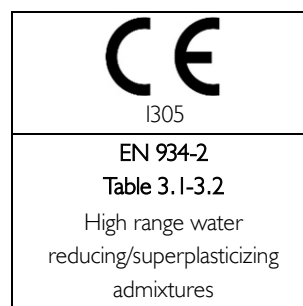
Compatibility

MasterRheobuild 1000 is compatible with all cements and admixtures meeting the UNI and ASTM standards.

In order to optimise special requirements the use of the following complementary additives is suggested:

- air entraining agent MasterAir to improve frost/thaw resistance (exposure class XF1 to XF4, EN 206-1);
- micro fibers from MasterFiber range to reduce plastic shrinkage cracking;
- expanding agent in powder, MasterLife SRA 150, for shrinkage compensating concrete;
- curing agent MasterKure against too quick evaporation of mixing water.

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

MasterRheobuild 1000 is generally dispensed at a rate from 0.8 to 1.2 litres per 100 kg of cement.

Other dosages may be recommended in special cases according to specific job site conditions. In these cases please consult our Technical Service Department for advice

Packaging and storage

MasterRheobuild 1000 is supplied in 10L cans, 1.000L tanks or in bulk.

MasterRheobuild 1000 must be stored in a place where temperature does not drop below 5°C.

In case of freezing, warm up and homogenise the admixture solution before using.

Directions for use

MasterRheobuild 1000 is introduced into the mixer together with mixing water.

The plasticizing effect or water reduction is higher if the admixture is added to the damp concrete after 80-90% of the mixing water has been added. The addition of MasterRheobuild 1000 to dry aggregate or cement is not recommended.

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Technical Information	
Form	Liquid, dark brown
Relative density (g/ml at 20°C)	1.140 – 1.200
Essential characteristic in accordance to EN 934-2	Performance
Chloride ion content	≤ 0.1% by mass
Alkali content (Na ₂ O equivalent)	≤ 3.0%
Corrosion behaviour	Contains component only from EN 934-1: 2008 Annex A.1
Compressive strength	Equal consistence: 24 hours ≥ 140%; 28 days ≥ 115% Equal w/c ratio: 28 days ≥ 90%
Air content	Equal consistence: ≤ 2.0 % Equal w/c ratio: ≤ 2.0 %
Water reduction	≥ 12%
Consistency	Increase: ≥ 120 mm Retention: comply 3.2

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 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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