

MasterLife SRA 910

Shrinkage reducing and water reducing admixture for cementitious based materials.

Material description

MasterLife SRA 910 is a liquid admixture for concrete and mortars that reduces drying shrinkage and the potential for drying shrinkage-induced cracking and curling.

Rather than functioning as an expansive agent, MasterLife SRA 910 acts by reducing the surface tension of pore water. In addition, MasterLife SRA 910 is a mild water reducing admixture and is CE marked following EN 932-2, T2.

Fields of application

MasterLife SRA 910 can be used in slab-on-grade construction and any structure where it is important to control drying shrinkage cracks.

For slab-on-grade construction, MasterLife SRA 910 can be used to increase joint spacings, providing for flatter, more durable and lower maintenance floors.

The use of MasterLife SRA 910 for shrinkage-reducing is recommended in the following applications:

- Industrial floors
- Floor for sports centres (skating rinks, tennis courts, running tracks, etc.)
- Foundations and underpinnings
- Road and railway tunnel vaults

Drying shrinkage and mechanism of action

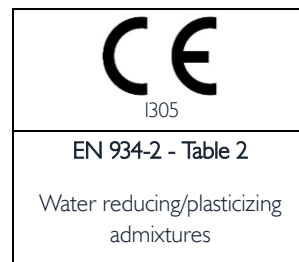
Drying shrinkage of concrete is a complicated phenomenon, widely acknowledged to be the function of several mechanisms.

The driving factor causing shrinkage for internal relative humidity in excess of 40% is the surface tension of water. As water-filled pores in the size range of 10 to 50 nm (nm or nanometre, is one billionth of a metre) lose moisture, curved menisci are formed and the surface tension of water pulls the walls of the pores.

MasterLife SRA 910 reduces the surface tension of water, thereby reducing the force pulling in on the walls of the pores and the resultant shrinkage strain is reduced.

Reducing drying shrinkage, curling and resultant cracking helps reduce maintenance costs over the service life of the structure.

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

The dosage of MasterLife SRA 910 can range from 1.0 to 2.0 liters per 100 kg of cement.

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

MasterLife SRA 910 is available in 10L cans, 1000L tanks or in bulk.

MasterLife SRA 910 must be stored indoors in a place where temperature does not drop below + 5°C.

Directions for use

MasterLife SRA 910 is a ready to use admixture to be used after all the ingredients cement, aggregates, water and water-reducer are well mixed, keeping in mind that it contains a dispersing agent and can by itself reduce the water demand.



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Compatibility

MasterLife SRA 910 is compatible with MasterGlenium, MasterEase, MasterSet, MasterPozzolith, and should always be used together with MasterGlenium, MasterEase to reduce the water-cement ratio.

Depending on dosage, MasterLife SRA 910 may cause slight retarding properties and can aid in extending slump life especially in hot climates.

MasterLife SRA 910 is not compatible with MasterRheobuild admixtures.

Technical Information	
Form	Liquid, yellow
Relative density (g/ml at 20°C)	0.983 - 1.023
Essential characteristic in accordance to EN 934-2	
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. I
Compressive strength	7 days ≥ 110% 28 days ≥ 110%
Air content	≤ 2.0 %
Water reduction	≥ 5%

Safety instruction

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

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

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.



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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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