

MasterLife SRA 915

Shrinkage reducing admixture for cementitious based materials.

Material description

MasterLife SRA 915 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 915 acts by reducing the surface tension of pore water.

Fields of application

MasterLife SRA 915 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 915 can be used to increase joint spacings, providing for flatter, more durable and lower maintenance floors.

MasterLife SRA 915 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.

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.

Dosage

The dosage of MasterLife SRA 915 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 915 is available in 10L cans, 208L drums, 1000L tanks or in bulk.

MasterLife SRA 915 must be stored indoors in a place where temperature does not drop below + 5°C.

Directions for use

MasterLife SRA 915 is a ready to use admixture to be used after all the ingredients cement, aggregates, water and water-reducer are well mixed.

MasterLife SRA 915 is compatible with most admixtures, particularly with MasterGlenium, MasterEase, MasterCO₂re MasterRheobuild, MasterSet, MasterPozzolith, and should always be used together with MasterGlenium, MasterEase or MasterCO₂re to reduce the water-cement ratio.

Depending on dosage, MasterLife SRA 915 may cause slight retarding properties (set times are extended less than one hour) and can aid in extending slump life especially in hot climates.



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Technical Information	
Form	Liquid
Relative density (g/ml at 20°C)	0.975 +/- 0.050

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.



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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