

MasterLife SRA 872

Shrinkage reducing admixture

MATERIAL DESCRIPTION

MasterLife SRA 872 shrinkage-reducing admixture was developed specifically to reduce drying shrinkage of concrete and mortar, and the potential for subsequent cracking.

MasterLife SRA 872 admixture functions by reducing capillary tension of pore water, a primary cause of drying shrinkage.

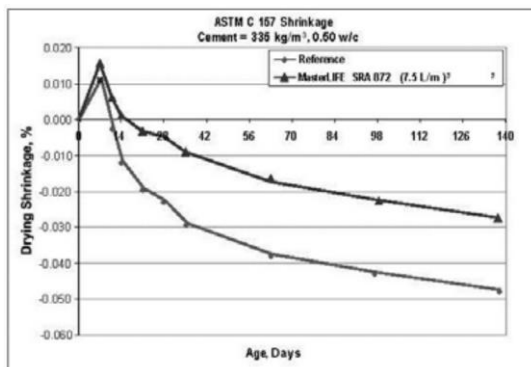
FIELD OF APPLICATION

Recommended for use in:

- Ready-mixed or precast concrete structures requiring shrinkage reduction and long term durability
- Wet mix shotcrete
- Mortars and grouts

FEATURES AND BENEFITS

- Reduces drying shrinkage cracking and microcracking thereby improving aesthetics, watertightness and durability.
- Reduction in drying shrinkage minimizes prestress loss.
- Minimizes curling.
- Significantly reduces drying shrinkage by as much as 80% at 28 days, and up to 50% at one year and beyond.
- Reduces stresses induced from onedimensional surface drying in concrete slabs and floors.
- Reduces carbonation.
- Can increase setting time from 1 to 2 hours, link to the dosage and temperature.



PACKAGING

MasterLife SRA 872 is available in 210 litre drums and 1,000 litre IBC.

TYPICAL PROPERTIES*

Properties listed are for guidance and are not a guarantee of performance.

Appearance	Transparent liquid
Specific gravity @25°C	0.995
Alkali	<0.3%
Chloride Content	"Chloride-free" to EN 934-2

DOSAGE

Guidelines for use:

Dosage: knowledge of the shrinkage characteristics of the concrete mixture proposed for use is required prior to the addition of **MasterLife SRA 872** admixture. The dosage of **MasterLife SRA 872** admixture will be dependent on the desired drying shrinkage and the reduction in drying shrinkage required. Therefore, it is strongly recommended that drying shrinkage testing be performed to determine the optimum dosage for each application and each set of materials.

The typical dosage range of **MasterLife SRA 872** admixture is 1 to 8% of cement weight. However, dosages outside of this range may be required depending on the level of shrinkage reduction needed.

MIXING

MasterLife SRA 872 admixture may be added to the concrete mixture during the initial batch sequence or at the jobsite.

The mix water content should be reduced to account for the quantity of **MasterLife SRA 872** admixture used.

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STORAGE

MasterLife SRA 872 should be stored at ambient temperatures above +2°C and MAXIMUM +50°C, precautions should be taken to protect the admixture from freezing.

If **MasterLife SRA 872** admixture freezes thaw and reconstitute by mild mechanical agitation.

Do not use pressurized air for agitation.

SHELF LIFE

The shelf life is 12 months when stored as above.

COMPATABILITY

MasterLife SRA 872 is typically used with other Master Builders Solutions Admixtures and is compatible with those from the MasterPozzoloth, MasterRheobuild, MasterPolyheed and MasterGlenium ranges. All admixtures should be dispensed separately and never premixed.

MasterLife SRA 872 is compatible with all types of Portland Cement including Sulphate Resisting and cementitious materials such as GGBS, Fly Ash and Micro Silica.

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

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QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

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