

# MasterLife® SRA 872

## Shrinkage reducing admixture

### 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.

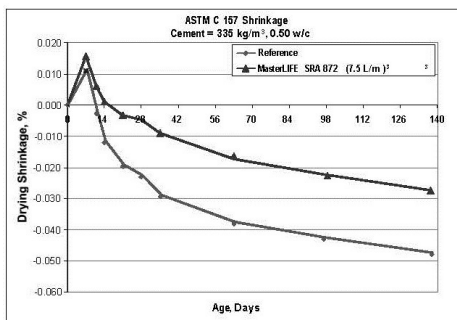
### TYPICAL APPLICATIONS

Recommended for use in:

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

### ADVANTAGES

- 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 one-dimensional 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\*

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

### APPLICATION GUIDELINES

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.

# MasterLife<sup>®</sup> SRA 872

## COMPATABILITY

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

**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.

## STORAGE AND SHELF LIFE

**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. The shelf life is 12 months when stored as above.

Do not use pressurized air for agitation.

## QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

### NOTE

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