

# MasterLife SRA 865

## Acrylic copolymer based admixture designed for fiber-reinforced concrete and cementitious systems

### DESCRIPTION

MasterLife SRA 865 is an acrylic copolymer based admixture designed for glass fiber reinforced concrete without leading to alkali silica reaction and it increases the abrasion resistance and durability of the product by reducing the water requirement of mortar and concrete. Also it provides internal curing.

### FIELDS OF APPLICATION

- Fiber-reinforced concrete systems
- Cement based composites
- Mortar and concrete repair solutions

### FEATURES and BENEFITS

MasterLife SRA 865 offers the following benefits:

- Improves the flexural and tensile strength.
- Provides self-curing for mortar/concrete without any need for water curing.
- Reduces cracks formed during strength development by reducing shrinkage through proper mix design.
- Improves resistance against water, oil and salt solutions.
- Improves durability and hardness of the mortar/concrete.
- Improves resistance to freezing-thawing cycles.

### THE MECHANISM

MasterLife SRA 865 decreases the permeability of the mixture by forming a layer of film in the mixture within the first few hours of the cement hydration after the specified amount of the admixture is added to the mixture. Thus, it provides required degree of water for full hydration by reducing the water loss.

### APPLICATION PROCEDURE

MasterLife SRA 865 can be used with all types of **EN 197 cements**. MasterLife SRA 865 should be added to the concrete mix during the mixing cycle at the same time as the water and the aggregates. Never add MasterLife SRA 865 to the dry cement. For optimal performance start dispensing the admixture after 80% of the mixing water addition.

MasterLife SRA 865 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterLife SRA 865 they must

be dispensed separately. Optimal performance of the MasterLife SRA 865 will only be obtained if used in conjunction with a suitable superplasticizer from either the MasterGlenium or MasterPolyheed ranges.

### DOSAGE

As a starting point the following dosage rate is recommended;

- *By Weight* - 10 to 14 kg per 100 kg of cement (binder).

The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilized according to specific job conditions. If required consult Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect. For specific shrinkage reduction levels it is recommended that the performance of the MasterLife SRA 865 is established by comparing different dosage rates to a reference concrete without any MasterLife SRA 865.

Where the concrete is to be machine finished by utilizing power float or power trowelling methods, we recommend that you contact with Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Department for dosage rate guidance.

### COMPATIBILITY

In order to optimize special requirements, the use of the following complementary admixtures is strongly recommended:

- Superplasticizer from the MasterGlenium or MasterRheobuild and MasterPozzolith ranges

When such complimentary admixtures are required it is important that laboratory trials are performed, prior to any supply, to determine the respective dosages of any complimentary admixture, and the suitability, in the fresh and hardened state, of the resultant concrete. In these circumstances we recommend that you consult our Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department for further advice.

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## PACKAGING

MasterLife SRA 865 is supplied in 1000-kg IBC's, 210 kg barrels and 30-kg canes.

Product Data	
Appearance	White
Specific gravity @ 20°C	1.01-1.04 kg/lt
pH-value	7-9
Service Temperature	-20 °C +80 °C
Logistics	
Shelf life	12 months if stored according to manufacturer's instructions in unopened container.
Storage conditions	Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Handling and transportation	Refer to MasterLife SRA 865 Safety Data Sheet.
Disposal	Refer to MasterLife SRA 865 Safety Data Sheet.

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## HEALTH AND SAFETY

\*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

## SPILLAGE

Chemical products can cause damage; clean spillage immediately.

## DISCLAIMER

"Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti " (the Company) endeavors to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use. Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application. Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest product literature.

## CONTACT INFORMATION

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**MasterLife SRA 865** Technical Data Sheet -  
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