

MasterLife[®] SRA 865

Stren-Butadiene Copolymer-Based, Admixture Designed for Fiber-Reinforced Concrete and Cementitious Systems

Material Description

MasterLife[®] SRA 865 is an Stren-butadiene 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.

Areas of Application

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

Characteristics 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.

Processing Method

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 MasterRheobuild[®] 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 MBT Tech Services

Technical Properties

Appearance	White
Specific Gravity (20°C)	1.00-1.04 kg/lt
pH Value	6 - 9
Service Temperature	-20 °C +80 °C

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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 MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş. 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 **MBT Tech** Technical Services Department for further advice.

Packaging

MasterLife® SRA 865 is available in 1000 kg IBCs and 200 kg barrels.

Shelf Life

12 months if stored according to manufacturer's instructions in unopened container.

Storage

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.

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

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of

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use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

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