

MasterLife SRA 900

Shrinkage reducing admixture for concrete

Material Description

Shrinkage describes the external changes in the volume of concrete (contraction) which are independent of the loading and caused by changes in the water regime and the chemical reaction (hydration) of the concrete. Due to shrinkage, concrete may exhibit a severe crack development which allows the ingress of harmful substances potentially leading to decreased durability.

MasterLife SRA 900 is a liquid shrinkage reducing admixture which reduces both the autogenous and drying shrinkage of concrete, while maintaining its mechanical properties. The admixture is composed of carefully selected organic compounds which chemically reduce the capillary forces within concrete. MasterLife SRA 900 does not contain any expansive material.

Fields of Application

- Concrete with a specified or reduced shrinkage level
- Concrete with crack width limitation requirements
- Concreting in adverse weather conditions (wind, sun)
- Concreting with high quality and/or in large volumes
- Industrial floors or pavements
- Floors for sports centres (skating rinks, tennis courts, running tracks, etc.)
- Prestressed elements (e. g. concrete beams, hollow core slabs)
- Fixed elements (e. g. containments, sedimentation tanks, fixed walls)
- Façade panels (especially when it is made out of HPC, VHPC or UHPC)
- Hydraulic structures (e. g. tanks, reservoirs, swimming-pools, concrete in marine environments)
- Foundations and underpinnings
- Road and railway tunnel vaults

Consult our Technical Services Department for any application not covered above.

Characteristics and Benefits

MasterLife SRA 900 offers the following economic and technical benefits to the Ready-Mix and Precast industries

- Highly efficient shrinkage reducing admixtures
- Reduced autogenous and drying shrinkage at dosages of 1% by weight of cement
- High cement compatibility and excellent strength retention properties
- Reduced crack widths for an increased durability
- Increased joint spacing in slabs are possible
- Almost no emission of volatile organic compounds (VOC) (Class A+ for all samples)
- No impact on superplasticizer dosage
- for many subsequent surface finishes
- Aqueous product for indoor application
- Imparts a harder dust free surface
- Easy and economical application
- Reduces labour costs

Directions for Use / Mixing

MasterLife SRA 900 can be used with all types of EN 197 cements. For optimal performance, start dispensing the admixture after approximately 60% of the mixing water has been added. MasterLife SRA 900 can be added directly into the truck mixer, providing sufficient mixing time has been provided, to ensure the mixes homogenization. MasterLife SRA 900 should not be pre-mixed with other admixtures. If other admixtures are to be used, they must be dispensed separately.

Dosage

The dosage of MasterLife SRA 900 can range from 1.0 to 2.5 % by weight of cement. Other dosages may be used in special cases according to the specific job site conditions. In these cases, please consult our Technical Services Department for advice.



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Dispensing

MasterLife SRA 900 should be dispensed through a proprietary dispenser.

Compatibility

MasterLife SRA 900 is compatible with a broad range of our admixtures, e. g. with MasterGlenium, MasterPozzolith or MasterEase. However, initial trial mixes are recommended to determine the optimum dosage and to ensure that the desired fresh, as well as hardened, concrete properties are achieved.

Packaging

MasterLife SRA 900 is supplied in 1000-litre IBC's and 15-litre containers

Contact Details

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Product Data	
Appearance:	Translucent liquid
Specific gravity @ 20°C:	0.922 ± 0.01 g/cm ³
pH-value:	6.3
Chloride content (%):	≤ 0.10 by mass
Alkali content (%):	≤ 1.00 by mass
Viscosity 20° C (Brookfield):	34 cP
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 10°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 900 Safety Data Sheet
Disposal:	Refer to MasterLife SRA 900 Safety Data Sheet

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Disclaimer

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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 vapour 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 UK Ltd" (the Company) endeavours 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.