

MAPECURE SRA XF

Liquid admixture for reducing the shrinkage of air entrained concrete



DESCRIPTION OF THE PRODUCT

Mapecure SRA XF is a chloride-free liquid admixture, especially developed in MAPEI's own Research & Development laboratories, to reduce hydraulic shrinkage in air entrained concrete.

WHERE TO USE

Mapecure SRA XF is particularly recommended for the production of ready-mixed concrete for:

- External concrete slabs.
- Bridge decks.
- Airports pavements.
- Ready-mixed and precast air entrained concrete where considerable reduction of cracking induced by hydraulic shrinkage is required.
- With very low or no final shrinkage, used in combination with **Expancrete** expansion agent (**Mapecrete System**).

TECHNICAL CHARACTERISTICS

Mapecure SRA XF is a special liquid admixture especially formulated to reduce the formation of cracks induced by hygro-metric shrinkage in air entrained concrete.

Mapecure SRA XF works by reducing the surface tension of the water present in the capillary pores. This process reduces the intensity of the forces which act upon the walls of the pores, and guarantees better dimensional stability and, therefore, a drastic reduction of cracks caused by this phenomenon.

The use of **Mapecure SRA XF** in combination with **Expancrete (Mapecrete System)** expanding agent creates a synergic action that allows to produce concrete with no shrinkage and with exceptional volumetric stability.

Mapecure SRA XF and **Mapecrete System** must always be combined with a correct concrete design and must also follow the basic parameters in order to minimize shrinkage (water/cement ratio and cement/inert ratio). Furthermore, under particularly severe climatic conditions (high temperatures and high winds), the application of concrete without the use of formwork should be combined with a damp curing cycle, by using an anti-evaporation membrane (**Mapecure E** and **Mapecure S**), or by using traditional covering and wetting methods for the first seven days.

COMPATIBILITY WITH OTHER PRODUCTS

Mapecure SRA XF is compatible with other admixtures used in high-quality concrete production, and especially with:

- Superplasticizing admixtures from the **Dynamon** range.
- **Expancrete** expanding agent, used in the production of compensated shrinkage compensating concrete (**Mapecrete System**).
- **Mapear** range air-entraining agents, used in the production of concrete resistant to freeze/thaw cycles.
- **Mapefast** range accelerating admixtures, to reach high mechanical strength after short curing times, even in cold weather.
- **Mapeplast SF** micro-silica-based powder, used in the production of “top-quality” concrete with high mechanical strength and waterproofing and durability properties.
- **Mapeform Eco** and **DMA** range form-release compounds, used for stripping formwork from concrete.
- **Mapecure** range curing compounds, used to protect against rapid evaporation of the gauging water in concrete structures without formwork.

HOW TO USE

Add **Mapecure SRA XF** into the cement mixer after all the other ingredients (water, cement and aggregates). Continue mixing until a homogenous mixture is obtained.

CONSUMPTION

Dosage by volume: 1 - 2 l every 100 kg of cement. Different dosages from those suggested must be previously tested through concrete trials, in addition to consulting MAPEI Technical Services Department.

PACKAGING

Mapecure SRA XF is available in bulk, 200 l drums, 1000 l tanks and 25 kg buckets.

STORAGE

Mapecure SRA XF can be stored for 12 months in sealed containers, protected from frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.no

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	liquid
Colour:	light amber
Density according to ISO 758:	1.0 ± 0.02 g/cm ³ at +20°C
Chloride content:	0.05 %
Dry solid content*:	100 %
Main action:	reduction in hydraulic shrinkage
pH:	8 ± 1

* The product does contain 100 % of a liquid chemical compound, which is not containing any water. Therefore, it is more correct to define dry material content as 100 %. In this way the SRA-admixture is not influencing the water/binder-ratio.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above - information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the technical data sheet, available from our web site www.mapei.no

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