



# Mapecure SRA 25

## Liquid admixture for reducing the shrinkage of concrete



### DESCRIPTION

**Mapecure SRA 25** is a chloride-free liquid admixture, specially developed in MAPEI's own research laboratories, to reduce hydraulic shrinkage in cementitious conglomerates. **Mapecure SRA 25** does not contain expansion agents.

### WHERE TO USE

**Mapecure SRA 25** is particularly recommended for the production of ready-mixed concrete:

- for internal and external concrete industrial floors;
- ready-mixed and pre-fabricated concrete where considerable reduction in 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 25** is a special liquid admixture specially formulated to reduce the formation of cracks induced by hygrometric shrinkage in conventional and self-compacting concrete. **Mapecure SRA 25** works by reducing the surface stresses 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 in cracks caused by this phenomenon.

The use of **Mapecure SRA 25** in combination with **Expancrete (Mapecrete System)** expanding agent

creates a synergic action to produce concrete with no shrinkage and with exceptional volumetric stability.

**Mapecure SRA 25** and **Mapecrete System** must always be combined with correct design of the concrete, and especially for the basic parameters to minimise shrinkage (water/cement ratio and cement/inert ratio). Also, under particularly severe climatic conditions (high temperatures and high winds), application of concrete without the use of formwork should be combined with a damp curing cycle, by using an anti-evaporation membrane (**Mapecure E** or **Mapecure S**), or by using traditional covering and wetting methods for the first seven days.

### COMPATIBILITY WITH OTHER PRODUCTS

**Mapecure SRA 25** is compatible with other admixes used in the manufacture of high-quality concrete, and especially with:

- super-plasticising admixtures from the **Dynamon** range, high-efficiency acrylic admixes for concrete with a low water/cement ratio;
- **Expancrete** expanding agent, used in the production of compensated shrinkage concrete (**Mapecrete System**);
- **Dynamon HAA** and **Antifreeze S** hardening accelerator admixes, 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

| TECHNICAL DATA (typical values)                    |   |
|--|---|
| PRODUCT IDENTITY                                   |   |
| Consistency:                                       | liquid  |
| Colour:  | light amber   |
| Density according to ISO 758 (g/cm <sup>3</sup> ): | 0.99 ± 0.02 at +20°C  |
| Principal action:                                  | reduction in hydraulic shrinkage  |
| Storage:   | 12 months, protect from frost   |
| Hazard classification according to EC 1999/45:     | irritant.<br>Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet |
| Customs class:                                     | 3824 40 00  |

mechanical strength and waterproofing and durability properties;

- **DMA 1000, DMA 2000 and DMA 3000** form-release compounds, used for stripping formwork from concrete;
- **Mapecure E and Mapecure S** curing compounds, for protection against rapid evaporation of the gauging water in concrete structures without formwork;
- **Mapeplast PT1 and Mapeplast PT2** air-entraining agents, used in the production of concrete resistant to freeze/thaw cycles.

#### HOW TO USE

Add **Mapecure SRA 25** into the cement mixer after all the other ingredients (water, cement and aggregates). Mix until a homogenous mix is obtained.

#### RECOMMENDATIONS

According to the dosages used, **Mapecure SRA 25** reduces mechanical strength after 28 days by approximately 5%.

#### CONSUMPTION

**Dosage in volume:**  
1-2 l per 100 kg of cement.

#### PACKAGING

**Mapecure SRA 25** is available in either bulk quantities, in 200 l drums or 1000 l tanks.

#### STORAGE

**Mapecure SRA 25** can be stored for 12 months in sealed containers; protect from frost.

#### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Mapecure SRA 25** is an irritant, and may cause serious damage if it comes into direct contact with the eyes. The use of protective gloves and goggles is recommended when handling the product. If the product comes into contact with the eyes, rinse off well with plenty of clean water and seek medical advice. Further information is available on the product's Safety Data Sheet.

FOR PROFESSIONAL USERS.

#### 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.*

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**