



# **BISEAL<sup>®</sup> SRA**

## **SHRINKAGE-REDUCING LIQUID ADMIXTURE FOR CONCRETE AND MORTAR**

### **DESCRIPTION**

**BISEAL<sup>®</sup> SRA** is a liquid admixture that once added to the mixing water reduces the plastic and drying shrinkage of concrete and mortar, reducing the risk of cracking during the curing process.

### **APPLICATION FIELDS**

- High performance concrete for civil works with improved aesthetic finish and surface appearance.
- Industrial flooring systems.
- Concrete subject to aggressive environmental conditions and permanent immersion wherein a low permeability and reduced risk of cracking is required.
- Large concrete pours or during adverse application conditions: hot weather, wind, direct sunlight, etc.
- Concrete and mortar with a high w/c ratio.
- Screed mortars, rendering, topping and plastering mortars, etc.

### **ADVANTAGES**

- Acts by reducing the water surface tension over the concrete/mortar surface thereby minimizing the risk of cracking.
- Reduces plastic and drying shrinkage of concrete and mortar between 25 and 35%, depending of composition.
- Increases durability of concrete structures and the reinforcing steel against corrosion, reducing the penetration of water, salts and other aggressive chemicals through the cracks.
- Compatible with the superplasticizing admixtures such as **BISEAL<sup>®</sup> SCC**, **BISEAL<sup>®</sup> SPF** and **BISEAL<sup>®</sup> POL**, the **BISEAL<sup>®</sup> FUME** silica fume-based powder admixture or the **BISEAL<sup>®</sup> CEL** air-entraining admixture.
- Chloride-free and does not contain other corrosive agents for reinforcing steel.
- Provides a cohesion side effect for fresh concrete thereby reducing the segregation.
- Reduces costs of crack repairs and finishing.

### **APPLICATION INSTRUCTIONS**

#### **Mixing**

**BISEAL<sup>®</sup> SRA** is supplied ready to use, by adding to the mixing potable water. Do not add directly on dry cement or aggregate.

#### **Cleaning**

Tools and equipments should be cleaned immediately with clean water after use.

### **CONSUMPTION**

Estimated dosage range of **BISEAL<sup>®</sup> SRA** is from 0,5 to 2,0% by weight of cement and pozzolanic compounds. For screed mortars the typical dosage is about 1,0% by weight of cement and pozzolanic compounds.

Trial mixes should be carried out to determine the optimum dosage according to the final properties and uses of the mortar or concrete.

### **PACKAGING**

**BISEAL<sup>®</sup> SRA** is supplied in 25 kg jerrycans and 220 kg drums and 1.000 kg containers.

### **STORAGE**

Twelve months in its original unopened containers, in a dry and covered place with temperatures above 10°C. Protect against direct sunlight and frost.

Temperatures below 10°C lead the crystallisation of the product. Should this happen, it must be heated slowly while is regularly stirred until achieving its homogeneous and original lump-free consistency.

### **IMPORTANT INDICATIONS**

- Do not add to dry compounds.
- Observe the dosage range for the admixture.
- Trial mixes should be carried out to determine the optimum dosage of **BISEAL<sup>®</sup> SRA** to

achieve the desired properties of the concrete or mortar.

- For further information and other uses not specified in this Technical Bulletin, consult our Technical Department.

## SAFETY AND HEALTH

**BISEAL® SRA** is a non-toxic product. Avoid contact with the eyes and skin. Use gloves and

safety goggles. In case of skin contact, wash with warm water and soap. In case of eye contact, wash abundantly with water and seek medical assistance.

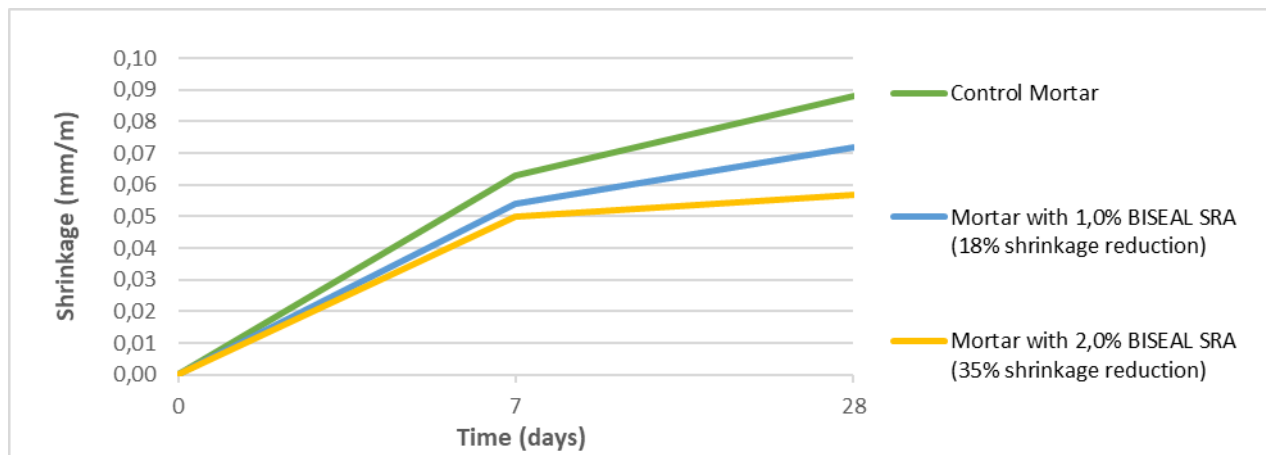
Safety Data Sheet for **BISEAL® SRA** is available by request.

Final user must dispose of the product and its empty packaging and according to official regulations.

## TECHNICAL DATA

Characteristics of the products	
Appearance	Transparent liquid
Colour	Yellow
Density (g/cm <sup>3</sup> )	1,0 ± 0,1
Chlorides content, (%)	< 0,05
Flammability	Non-flammable
Water solubility	Total

## SHRINKAGE REDUCTION FOR A SCREED MORTAR (EN 1015-12)



## GUARANTEE

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