

# Stabilcem ARS

## Cement-based, high-strength sulphate binder to make slightly thixotropic fluid slurries and/or super-fluid injection mortars

### WHERE TO USE

Preparation of a super-fluid consolidating slurry applied by injection.

### Application

Filling cavities and cracks in uneven masonries and rocks which require consolidating, by casting or injection.

### TECHNICAL CHARACTERISTICS

**Stabilcem ARS** is a powder-based binder with special additives. It is used as a substitute for standard cement to make a slightly thixotropic fluid slurry and/or a high quality mortar. The use of **Stabilcem ARS** allows the following to be produced:

- high fluid slurry with no bleeding;
- segregation-free mortar with a low water/cement ratio

**Stabilcem ARS** does not contain metallic aggregates.

### RECOMMENDATIONS

- Do not use **Stabilcem ARS** where high-precision fixing is required (use **Mapefill**).
- Do not use **Stabilcem ARS** if the bag is damaged.

### APPLICATION PROCEDURE

#### Preparation of the holes

In the case of consolidation by injection, after making the holes required, thoroughly rinse the internal porosity with water starting from the top, so that all dust and particles which are not well bonded will run out through the holes.

The rinsing cycle must be repeated a number of times so that the internal surfaces are perfectly clean.

#### Preparation of the mix

##### • Injection slurry:

Add approximately 7 l of water into the mixer and, while mixing, add a 20 kg bag of **Stabilcem ARS** and continue mixing until a smooth, lump-free slurry is obtained.

##### • Mortar:

Add the required amount of water into the mixer in order to obtain the consistency required, then add the **Stabilcem ARS** and inert materials. Continue mixing until a homogenous mix is obtained.

#### Application of the mix

##### • Injection slurry:

After checking that the masonry is capable of bearing the injection pressure (if not considered capable, then it must be reinforced), inject the

TECHNICAL DATA (typical values)	
<b>PRODUCT IDENTITY</b>	
<b>Consistency:</b>	powder
<b>Colour:</b>	grey
<b>Bulk density (kg/m<sup>3</sup>):</b>	900
<b>Dry solids content (%):</b>	100
<b>Storage:</b>	12 months in original packaging in a dry place
<b>Hazard classification according to EC 1999/45:</b>	irritant. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
<b>Customs class:</b>	3824 50 90
<b>Mixing ratio for injection slurry:</b>	100 parts by weight of <b>Stabilcem ARS</b> to 38 parts of water
<b>Density of mix (kg/m<sup>3</sup>):</b>	2,000
<b>Bleeding:</b>	none
<b>Compressive strength after 28 days according to EN 196 (N/mm<sup>2</sup>):</b>	> 50
<b>MECHANICAL CHARACTERISTICS OF STABILCEM ARS SLURRY</b>	
<b>Mix composition:</b>	<b>Stabilcem ARS</b> 1,450 g, water 550 g
<b>Low-cone (EN 445):</b>	< 15 seconds
<b>Density of mix (kg/m<sup>3</sup>):</b>	2.000

**Stabilcem ARS** slurry at low pressure through the feeder tubes which have been previously placed in position. Start from the lower holes, making sure that an injection pressure no higher than 1 atm is used on masonry in a poor condition.

- *Mortar:*  
According to the type of work to be carried out and the consistency required, the mortar may be applied using conventional methods (casting, using a trowel, etc.) or with an injection pump.

### Cleaning

Tools used to prepare and apply slurry and mortar made using **Stabilcem ARS** may be cleaned with water before the material sets. Once it has set, cleaning may only be carried out by mechanical means.

### CONSUMPTION

- Injection slurry: 1.45 kg per l of cavity to be filled.
- Mortar and concrete: 400-600 kg/m<sup>3</sup>.

### PACKAGING

The product is available in 20 kg paper bags.

600 kg and 800 kg big-bags are also available upon request.

### **STORAGE**

**Stabilcem ARS** remains stable for at least 12 months if stored in its original packaging in a dry place.

### **SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

**Stabilcem ARS** contains cement which, in contact with perspiration or other body fluids, produces an irritating alkaline reaction and rashes in those persons who are allergic. Use protective gloves and goggles.

For further information, please refer to the Safety Data Sheet.

FOR PROFESSIONAL USERS.

### **WARNING**

*While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications.*

*Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.*

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

**Stabilcem ARS**



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