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### **Technical Data Sheet**

## **ASOCRET-FS**

Art.-No. 2 05551

### Mineral-based fine repair mortar for 1-6 mm voids; largest grain size 0.5 mm

### **Properties:**

ASOCRET-FS is a fine mineral-based repair mortar for 1-6 mm voids with the following properties:

- Fine grain cement-based mortar for vertical and horizontal surfaces
- Trowel or spray application
- Ready to use once mixed with water
- Water vapour permeable
- Resistant to frost and de-icing salts
- Very easy to use
- Reduces CO2 penetration
- High resistance to carbonation

## Aquafinstraße 2–8 D-32760 Detmold 2 05551 ....cete replacement for non-struc repair to EN 1504:3:ZA:1a Compressive strength Chloride ion content dhase: ≥ 0.8 N/mm Adhesive bond Restrained shrinkage/expansion ≥ 0.8 N/mm<sup>2</sup>

part 1 Capillary water absorption Carbonation resistance E-modulus ≤0.5 kg×m³× h° passed ≥ 20 GPa Reaction to fire Durability Class A1 NPD

### **Areas of Application:**

ASOCRET-FS is used to repair concrete where a slump resistant fine repair mortar is required

- on horizontal, vertical and overhead areas with 1-6 mm voids
- for levelling in swimming pools and surrounds as well as for forming pool edge details prior to waterproofing or tile installation.

### **Technical Data:**

Colour: cement grey Basis: cement Grain size: up to 0.5 mm1.3 kg/dm<sup>3</sup> Bulk density: Settled apparent density: 2.0 kg/dm³

Pot life: approx. 60 mins at +20 °C

Overcoat after: min. 1 day

Substrate/application

min. +5 °C, max. +30 °C Compressive strength: 24 hrs, approx. 11 N/mm<sup>2</sup>

> 7 days, approx. 30 N/mm<sup>2</sup> 28 days, approx. 40 N/mm<sup>2</sup> 24 hrs, approx. 2 N/mm<sup>2</sup>

Flexural strength: 7 days, approx. 7 N/mm<sup>2</sup> 28 days, approx. 8 N/mm<sup>2</sup> Cleaning: Thoroughly clean work tools

with water after use

Packaging: 25 kg bag

12 months when stored Storage:

dry in the original unopened packaging. Use opened packaging promptly.

### **Substrate preparation:**

Before applying ASOCRET-FS, thoroughly pre-wet the substrate. However, the substrate should only have a matt damp surface when applying ASOCRET-FS. Preparation of the substrate is necessary e.g. grit blasting, shot blasting, high pressure jet washing (500–2000 bar) if no other concrete restoration measures were carried out. Cementitious surfaces must be sound, open textured with a good key and be loadbearing, free from cement laitance, loose areas as well as adhesion inhibiting substances (oil, grease, rubber marks, paint residues or other contamination).

Minimum concrete substrate age: 28 days Medium surface tensile strength: min. 1.5 N/mm<sup>2</sup> Abrasion resistance required for concrete substrates: min. 1.5 N/mm<sup>2</sup>

### **Product preparation:**

Preparing the fine mortar:

• ASOCRET-FS 25 kg

 Water approx. 5.0 - 5.25 litres

Material consumption (prepared mix): Approx. 1.6 kg/m<sup>2</sup>/mm thickness Approx. 1.01/mix = 2.0 kg

Place up to 80% of the water quantity given above into a clean mixing bucket.

Slowly add the above quantity of ASOCRET-FS whilst continuously mixing with suitable equipment (approx. 300 rpm). Thoroughly blend the material for approx. 3 minutes to a lump free mortar. Then add the remaining water and mix for a further 2 minutes. Allow to stand for 2 minutes then briefly re-mix. When mixing large quantities, use a forced paddle mixer. Only mix as

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much material as can be used within the pot life given above.

### Application tools:

Hand trowel, steel float, lath, rubbing sponge

### Application by hand:

Apply ASOCRET-FS to the prepared matt damp substrate to the desired thickness. Pores and cavities should be trowelled over initially. After allowing the appropriate waiting time, smoothen the surface. The surface may not be post-treated with a wet brush or wet trowel. It is possible to rub up after application using a dry sponge to achieve a neat transition within the repaired area.

### Wet spray application:

When applying with wet spray techniques, it is necessary to thoroughly dampen the surface to be coated until matt damp.

Re-profiling with wet spray techniques is carried out after mixing in a compulsory mixer with a suitable feed pump using a 12 mm spray re-profiling gun or a 35/12 mm MAWO nozzle. For an even spray pattern a high output construction compressor (min. 4 m³ air / 4 - 5 bar operating pressure) is a mandatory requirement.

Without compulsory mixer:

Pump system: High Comp Power

Pump unit: XP 120

Water demand: approx. 160 – 180 l/hr Nozzle: MAWO nozzle 35/12 mm or 12 mm

re-profiling spray gun Max. Pipe length: 30 m

Control nozzle displacement: 0.5 – 1.0 m

PFT pump system:

Multi Mix compulsory mixer

Feed pump N2FU4000 / screw conveyor D8-1.5

Reprofiling spray gun 12 mm Max. Pipe length: 30 m

Control nozzle displacement: 0.5 - 1.0 m

Inotec pump system:

Inomix compulsory mixer ZM80 Jet Mix Inobeam F21 light / screw conveyor D8-1.5 Reprofiling spray gun 12 mm

Max. Pipe length: 30 m

Control nozzle displacement: 0.5 – 1.0 m

### Material application:

Through the addition of air at the spray nozzle, the mortar is sprayed in a circular manner in order to achieve a clean spray pattern. The first pass of the spray head is to fill holes and cavities and to even out irregularities in the substrate. The second spray pass is to achieve the required thickness and to finish with a suitable smoothing tool.

### Post-treatment:

Following the application of ASOCRET-FS, it is fundamentally necessary to protect the mortar surfaces from drying out too quickly using suitable measures Keep damp for at least 3–5 days using mist spray nozzles or wet jute sacking as required also covered with polythene sheets. The polythene sheets must be fastened to the area treated, so that air exchange cannot take place. If the area in question is exposed to direct sunlight, draughts, large temperature fluctuations and/or low humidity then after care treatment must be intensified. If it is intended to apply a mineral-based waterproof slurry, then this can be used as an alternative after care treatment after approx. 24 hours.

### Important advice:

- Prior to carrying out concrete repair works the actual condition should be inspected by an expert or Structural Engineer. The inspection report is to be given to the applicator prior to commencement of repair work.
- Protect surfaces not being treated with ASOCRET-FS.
- Cover with suitable sheeting to protect from rain.
- Building substrate and ambient temperatures below +20 °C retard the set time. Building substrate and ambient temperatures above +20 °C accelerate the set time.

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- When preparing ASOCRET-FS only use mains or drinking water. Material that has started to stiffen may not be diluted with water or more powder added. There is a risk of an inadequate bond.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written confirmation from the Technical Services Department of SCHOMBURG GmbH & Co. KG.
- Observe the "Additional technical contractual terms and regulations" from the ZTV-ING.

Please adhere to the valid EC Materials Safety Data Sheet (MSDS).

GISCODE: ZP1

This technical data sheet is a translation from the German language version and does not consider local building codes or legal requirements. It shall be used as general reference for the product. Legally binding is only the German technical data sheet or the latest Data sheet from one of our foreign subsidiaries inside their sales territory.

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