



## Technical Data Sheet

# ASOCRET-M30

Art.-No. 2 05539

## Water repellent multi-purpose mortar up to 30 mm

<b>CE</b>	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2 – 8 D-32760 Detmold 15 2 05539	
DIN EN 998-1:2010:12 <b>ASOCRET-M30</b> Normal plaster	
Compressive strength	CS IV
Capillary water absorption, Category	W2
Water vapor permeability coefficient, $\mu$	$\leq 25$
Tensile strength 28d	$\geq 0.5 \text{ N/mm}^2$
Fracture appearance	A
Thermal conductivity, $\lambda_{10, \text{dry}}$ , Tabulated average value (P = 50%), DIN EN 1745	$< 0,67$
Reaction to fire	A1
Durability (Frost resistance)	Resistant in case of handling according to the technical data sheet

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DIN EN 1504-3 <b>ASOCRET-M30</b> Concrete replacement product for non-structural repairs EN 1504-3: ZA, 1a	
Compressive strength	R1
Chloride ion content	$\leq 0.05 \%$
Adhesive bond	$\geq 0.8 \text{ MPa}$
Capillary water absorption	$\leq 0,5 \text{ kg/m}^2/\text{h}^{0,5}$
Restrained shrinkage/expansion	NPD
Carbonation resistance	NPD
Reaction to fire	Class A1

NPD = „No Performance Determined“

e.g. filigree concrete slabs. Furthermore ASOCRET-M30 can be used for levelling swimming pool tank walls as well as for shaping, for example swimming pool edge details or similar areas in swimming pools.

Due to its reactive properties, it can be applied with assurance and without long waiting times under critical conditions, e.g. at high humidity, low temperatures etc.

### Technical Data:

Basis:	Sand, cement, high quality additives
Colour:	light grey
Water demand:	approx. 4.50–5.25 l/25 kg approx. 1.10–1.30 l/6 kg
Water demand, Bonding agent:	approx. 0.26 l/kg powder component
Bulk density:	approx. 1.6 kg/dm <sup>3</sup>
Substrate/ application temp.:	+5 °C to +30 °C
Pot life*:	approx. 30 mins
Overcoat after*:	approx. 3 hours
Flexural strength after 28 days:	approx. 5.0 N/mm <sup>2</sup>
Compressive strength after 28 days:	approx. 20.0 N/mm <sup>2</sup>
Water vapor permeability coefficient w24:	$< 0.1 \text{ kg/m}^2 \times \text{h}^{0.5}$
Packaging:	6 and 25 kg plastic bag
Consumption:	
· Surface levelling:	approx. 1.4 kg/m <sup>2</sup> /mm thickness
· Mineral-based covered fillets:	approx. 3.0 kg/m
Storage:	dry, 12 months in the original unopened packaging. Use opened packaging promptly.



- For interior and exterior areas.
- Shrinkage compensated.
- Rapid setting.
- Water-repellent.
- Sulfate resistant.
- For thicknesses from 3 to 30 mm.
- Very smooth application.
- High slump resistance.
- Can be quickly overcoated.

### Areas of application:

ASOCRET-M30 is used for repairing and levelling of damage and voids in wall and floor areas up to a thickness of 30 mm in one application. It is also suitable for producing mineral-based fillets, water impermeable render coats with negative waterproofing (barrier render) from 10 mm thickness, as well as a joint filling mortar for

\* These values relate to +23 °C and 50 % relative humidity. Due to site and weathering conditions, the data given may be extended or reduced.

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## Substrate preparation:

The substrate must be load-bearing, sound with a good key and be free from adhesion inhibiting substances such as separating agents, dust etc. Rake out crumbly masonry joints to a depth of 2 cm and mechanically clean the area. Treat heavy salting with ESCO-FLUAT. Remove all loose or poorly bonded layers from damaged areas until a solid base is reached. Remove laitance using suitable means such as e.g. hand scabbling. Pre-wet the substrate so that it is matt damp during the application of ASOCRET-M30. To improve adhesion prime highly absorbent substrates with ASO-Unigrund-GE or ASO-Unigrund-K. When applying to very dense or smooth substrates e.g. concrete or natural stone masonry, we recommend applying a bonding coat of ASOCRET-KS/HB. Dependent on the project, an alternative could be to use a splatterdash coat of THERMOPAL-SP.

## Product preparation:

Dependent on the desired consistency, place approx. 4.2 - 5.25 litres of clean water into a clean mixing bucket and whilst continuously mechanically stirring (mixing drill approx. 300 - 700 rpm), mix in as much dry mortar until a lump free, non-slump, smooth mortar paste is achieved. The mixing time is approx. 2-3 minutes. Allow to stand for 5 minutes then mix through once again. Application of the mortar is carried out to the technical regulations for plastering.

## Surface levelling:

ASOCRET-M30 can be applied to surfaces up to 30 mm in thickness in one application. Firstly apply a scratch coat of ASOCRET-M30 to the prepared substrate then apply to the desired thickness. Striking off is carried out dependent on the application using suitable tools (float, trowel or plasterer's darby) within the working time. After the appropriate standing time, the surface can be rubbed down using a rubbing board, felt board or sponge board.

Alternatively rub down with a grid float after approx. 60-80 minutes (dependent on the substrate, ambient conditions and thickness), so that surface irregularities are removed leaving a rough surface, which ensures a good bond for following coatings.

## Repair of voids:

Pre-wet the chopped out edges of the prepared voids until matt damp and then fill flush with the surface with ASOCRET-M30. Prepare deep holes or voids with a scratch coat. Treat the final levelling layer with a rubbing board, felt board or sponge board.

## Producing mineral-based covered fillets (internal corners and wall/floor junctions):

Coat the prepared substrate with ASOCRET-M30 in a slurry consistency and whilst still wet, form a covered fillet with ASOCRET-M30 at a min. edge length of 4-6 cm then round off. As an alternative and related to the project, a bonding coat of AQUAFIN-1K can be installed. The mineral-based covered fillet can be overcoated with the appropriate waterproofing system after approx. 3 hours. High temperatures shorten and low temperatures lengthen the drying time.

ASOCRET-M30 can be prepared in all conventional continuous mixing pumps (e.g. PFT G4, Iphofen or HighPump Basic, from HTG- HIGH TECH Germany GmbH, Berlin ).

## Equipment specification:

Pipe length:	max. 30 m
Pipe size:	25-35 mm
Stator/Rotor:	D6-3
Secondary mixer:	Rotor-mix
Spray head for scratch coat, nozzle size:	>14 mm
Water addition:	approx. 280-300 l/h

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## **Advice:**

- Protect areas not being treated from the effects of ASOCRET-M30.
- ASOCRET-M30 that has already started to stiffen must not be re-lifted by adding water or fresh mortar as there is a risk of inadequate strength development.
- Protect ASOCRET-M30 from drying out too quickly (e.g. from higher temperatures or wind) using suitable measures such as e.g. repeated spraying with water or by covering.
- Protect ASOCRET-M30 from weathering e.g. rain, frost, strong sunshine, wind etc., until fully dried out.

Please observe a current valid EU Safety Data Sheet!

**GISCODE: ZP 1**