



## Technical Data Sheet

# ASOCRET-GM100

**Art.-No. 2 05554**

## Coarse repair mortar

### Properties:

ASOCRET-GM100 is

- a cement based coarse mortar
- ready for use after mixing with water
- watertight
- permeable to water vapour
- decreases the penetration of CO<sub>2</sub>
- frost and thaw salt resistant

ASOCRET-GM100 cures even at dynamic loads crack free with low shrinkage and has a high carbonization resistance.

Approved acc. To ZTV-SIB, TL/TP-BE PCC 98 for the application area PCC I for holes of > 30 mm; largest grain size: 8 mm.

### Areas of application:

ASOCRET-GM100 is suitable for vertical surfaces as repair mortar for concrete repair works. It is suitable for the following application areas:

PCC I: surfaces subject to traffic and dynamic loads (for example underneath driveway coverings).

Repair mortar for excavations in the concrete. As surface for coatings and other coverings. ASOCRET-GM100 is a system component of the concrete repair system "ASOCRET PCC-system 2".

### Technical Data:

Basis:	Cement
Grain size:	0.1 – 8.0 mm
Bulk density (fresh mortar):	2.28 g/cm <sup>3</sup>
Water quantity:	10 %
Consumption:	approx. 2.0 g/cm <sup>3</sup>
Layer thickness:	> 30 mm
Pot life:	approx. 60 minutes at +20° C
Overworkable:	after at least 1 day
Application temperature:	at least +5° C max. +35° C

Compression strengths: 24 hrs approx. 16.0 N/mm<sup>2</sup>  
2 d approx. 47.0 N/mm<sup>2</sup>  
7 d approx. 48.0 N/mm<sup>2</sup>  
28 d approx. 60.0 N/mm<sup>2</sup>  
90 d approx. 74.0 N/mm<sup>2</sup>

Flexural strengths: 24 hrs. approx. 3.8 N/mm<sup>2</sup>  
2 d approx. 7.6 N/mm<sup>2</sup>  
7 d approx. 7.9 N/mm<sup>2</sup>  
28 d approx. 10.4 N/mm<sup>2</sup>  
90 d approx. 10.8 N/mm<sup>2</sup>

Adhesive strengths: 7 d approx. 3.1 N/mm<sup>2</sup>  
28 d approx. 3.0 N/mm<sup>2</sup>

E-modulus, dynamic: 28 d approx. 34.200 N/mm<sup>2</sup>

Cleaning: Clean tools with water immediately after use.

Packaging: 25 kg bags

Storage: 9 months, in original unopened packs, stored in dry and frost free places.

### Surface preparation:

ASOCRET-GM100 may only be applied on concrete and reinforced concrete surfaces which are clean, firm, open porous, absorbent and of a minimum quality of B 25. Smooth and tight surfaces have to be roughened. Prepare dirty surfaces accordingly before application of ASOCRET-GM100, using sandblasting, high pressure water blasting or shot blasting. Before application of ASOCRET-GM100 the surface has to be prepared with the bonding coat ASOCRET-KS/HB according to instructions.

### Product preparation:

Production of coarse mortar:

- ASOCRET-GM100 25.0 kg
- Water 2.50 – 2.75 l

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# ASOCRET-GM100

Pour 3/4 of the water quantity stated above into a clean mixing container. Add ASOCRET-GM100 constantly to the a.m. water quantity while stirring with suitable mixer (approx. 400 rpm). Mix the mass for a period of approx. 3 minutes until a homogenous lumpfree mortar is achieved. Then add the residual water and mix again for further 2 minutes. For larger quantities to be mixed use a compulsory mixer. Mix only as much material as can be used within the time periods stated above.

## Tools for application:

Trowel, jolting machine, shovel, wooden float, steel trowel

## Method of application / consumption:

ASOCRET-GM100 may only be applied on concrete and reinforced concrete surfaces which are pre-treated with the bonding coat ASOCRET-KS/HB according to the manufacturers instructions. Spread ASOCRET-GM100 on the freshly applied and still matt damp bonding coat ASOCRET-KS/HB with a shovel, trowel or wooden plank in the desired layer thickness. Afterwards the mortar is compacted with the shovel or trowel and drawn off. For larger surfaces use a jolting machine for this purpose. Afterwards rub off the surface with a wooden float and smooth with a steel trowel.

Consumption (ready mortar mixture):  
approx. 2,0 kg/m<sup>2</sup>/mm layer thickness.

## Treatment:

After application of ASOCRET-GM100 protect the surface against too rapid drying due to direct sun influence, draught air and/or high differences in temperature by means of covering with a membrane for a period of at least 1 day. After a waiting time of at least 1 day the surface can be further treated with the fine mortar ASOCRET-FS. In case of longer waiting times before the surface is further treated with the fine mortar. ASOCRET-FS it has to be treated with suitable measures according to ZTV-SIB98 for a period of at least 5 days.

## Health and safety:

ASOCRET-GM100 contains cement and reacts alkaline with moisture.

- Avoid contact with the eyes and the skin.
- Splashes have to be immediately cleaned with plenty of water.
- In case of eye contact seek medical advice!
- Keep out of reach of children!

Please regard the valid EC-safety data sheet.

## Important advice:

- Stiffened material must neither be diluted with water nor mixed with fresh mortar
- In case of application according to ZTV-SIB 98 only whole packing units must be used.
- Protect surfaces not to be treated against splashes of ASOCRET-GM100.

For detailed information see valid application instructions (AFA).

GISCODE: ZP1