

# ASOCRET-KS/HB

## Mineralic corrosion protection and bonding coat

### Properties:

ASOCRET-KS/HB is

- a cement based polymer modified fine mortar
- ready for use after mixing with water
- excellent processing, even on vertical surface and overhead
- watertight
- saponification resistant
- frost and thaw salt resistant.

ASOCRET-KS/HB cures even at dynamic loads crack free and with low shrinkage.

Approved acc. to ZTV-SIB 90 for the application areas PCC I, PCC II and PCC III.

### Areas of application:

ASOCRET-KS/HB is used as corrosion protection for the steel reinforcement in concrete repair works and simultaneously as bonding coat on concrete and mortar surfaces.

Suitable for the following application areas:

PCC I: surfaces subject to traffic and to dynamic loads (for example underneath driveways)

PCC II: surfaces not subject to traffic, but subject to dynamic loads (for example view from below of superstructures)

PCC III: surfaces not subject to traffic and to dynamic loads (for example sub constructions, support walls, concrete facades)

ASOCRET-KS/HB is system component of the concrete repair systems

- ASOCRET-PCC system I
- ASOCRET-PCC system III
- ASOCRET-PCC system 2

### Technical Data:

The data are determined at a temperature of + 20° C.

Basis: Cement

Component: 1

Water quantity:	bonding coat: 18% corrosion protection: 16%
Bulk density (fresh mortar):	1,850 g/cm <sup>2</sup>
Material consumption:	bonding coat: 2 - 4 kg/m <sup>2</sup> corrosion protection: 4 - 6 kg/m <sup>2</sup> (two times)
Pot life:	approx. 60 minutes at +10° C approx. 45 minutes at + 20° C approx. 30 minutes at +30° C
Application temperature:	+5° C to +40° C
Relative air humidity:	< 95%
Bonding strength:	approx. 3,0 N/mm <sup>2</sup>
Cleaning:	Clean tools with water immediately after use. Waiting times in between the single layers.
Corrosion protection:	at least 4 hours, as soon as the first layer is brush resistant fresh in fresh, in case of interruption resp. After curing the bonding coat has to cure totally.
Bonding coat:	
Packaging: 1	5 kg PE-buckets and 25 kg bags
Storage:	9 months, in closed original packs, stored in dry and frost-free places, above +10° C.

### Surface preparation:

Before application of ASOCRET-KS/HB exposed reinforcement concrete steels have to be derusted according to DIN 55928, part 4, purity grade Sa 2.5.

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The concrete steel should be free from dust and grease. Cement based surfaces should be firm, sound and free from laitance, loose particles that may deter adhesion (oil, grease, rubber abrasion, paint residues or other contaminations). The surface may be matt damp. A surface pretreatment is necessary, such as granulate-, shot- and pressure water blasting, grinding or milling. The bond strength has to meet a value of at least 1,5 N/mm<sup>2</sup>.

## Product preparation:

Production of the corrosion protection:

- Mix ASOCRET-KS/HB with 15 % of water.

Manufacture of the bonding coat:

- Mix ASOCRET-KS/HB with 18 % of water.

ASOCRET-KS/HB is mixed with a suitable mixer (max. 300 Rpm) or in the compulsory mixer for a time of approx. 5 minutes until the mass is homogenous and lump-free. After a curing time of 2 minutes stir again shortly. Mix only as much material as can be used within the time periods stated above.

## Tools for application:

Corrosion protection: paint brush

Bonding coat: stiff broom, brush

## Method of application / consumption:

Corrosion protection:

Apply ASOCRET-KS/HB in two coats onto the derusted concrete steel with a paint brush evenly.

The concrete steel may be matt damp. The second layer is applied after a waiting time of at least 6 hours as soon as the first layer is brush proof. After hardening of the second layer the repair mortar ASOCRET-FM40H can be applied after a time of approx. 6 hours.

**Bonding coat:**

ASOCRET-KS/HB is brushed into the prepared surface with a stiff broom fully covering and pore filling. The following layer made of the repair mortar ASOCRET-FM40H for example has to be done fresh in

fresh. In case of interruptions resp. when the bonding coat had already hardened it has to harden totally. Afterwards the application has to be repeated after the corresponding waiting time.

## Health and safety:

ASOCRET-KS/HB contains cement and reacts alkaline with moisture.

- Avoid contact with eyes and 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 90 only whole packing units must be used.