

ASOCRET-BIS-5/40

Cementitious repair mortar for breakage points of 5 – 40 mm



Material number	Package type	Colour	Units / pallet	Pc/package
206438001	25 kg, bag	Cement grey	42	1

Areas of application

- As a non slump re-profiling mortar
- For levelling pool tank walls, as well as modelling pool edges in swimming pools
- For concrete repair
- For walls and floors
- For breakout depths ca. 5 - 40 mm

Advantages

- watertight
- Vapour permeable
- Frost proof and resistant to thaw
- Can be trowelled and sprayed
- High resistance to carbonation

ASOCRET-BIS-5/40

Product features

- Cement-based re-profiling mortar (PCC)
- CE after DIN EN 1504-03
- Chloride-free
- Largest grain size: ≤ 4 mm

Technical Data

Material properties

Product components	1 component system
Base material	Pre-blended dry mortar
Consistency	Filler consistency
Bulk density of fresh mortar	approx. 2.1 kg/dm ³
Compressive strength (24 hrs.)	approx. 14 N/mm ²
Compressive strength (7 days)	approx. 50 N/mm ²
Compressive strength (28 days)	approx. 60 N/mm ²
Flexural strength (24 hrs.)	approx. 4 N/mm ²
Flexural strength (7 days)	approx. 8 N/mm ²
Flexural strength (28 days)	approx. 9 N/mm ²
Tensile adhesion strength DIN EN 1542	≥ 2 N/mm ²
Curve E module (DIN 53452)	approx. 20 GPa
Chloride content	≤ 0.05 %
Classification of the reaction to fire in accordance with DIN EN 13501-1	A1

Mixing

Mixing time	approx. 3 minutes
Water addition	approx. 3.5 l - 3.75 l

Application

Substrate/application temperature	approx. 5 - 30 °C
Pot life	approx. 60 minutes
Method of application, max. layer thickness per application step	up to 20 mm
Consumption pro m ² and mm layer thickness	approx. 1.8 kg/m ²
Overcoat after (min.)	after 24 hours
Foot traffic after	approx. 24 hours

Processing equipment

Aids/tools

- Stirrer (approx. 500-700 rpm)
- Suitable mixing paddle
- Trowel
- Flat trowel
- Rubber squeegee
- Spray equipment
- Construction compressor
- Forced paddle mixer

Manual processing

Can be trowelled off

Machine application

ASOCRET-BIS-5/40 can be mechanically applied. For precise information, see the additional Technical Information No. 43.

ASOCRET-BIS-5/40

Suitable substrate

- Concrete
- Cement-based screed (CT)

Preparing the substrate

Requirement for substrate

1. Firm
2. Grippy
3. Load-bearing
4. Pore open
5. Free of adhesion inhibiting substances

Preparing the details

1. If no previous concrete restoration work has been carried out, a substrate preparation (e.g. granulate, shot, ultra-high pressure water jetting (500-2000 bar)) is required.
2. Exposed reinforcing steels must be pretreated with the corrosion protection ASOCRET-HS-FLEX in accordance with the technical data sheet.

Preparing the surface

Pre-moisten the dry substrate so that it is matt damp at the time of application.

Application

Mixing

1. Put approx. 2.8-3.0 l of water into a clean mixing bucket and mix with 25 kg of the powder component to produce a homogeneous, lump-free mass.
2. Pre-mix for approx. 3 minutes.
3. Finally, add the remaining water quantity and mix sufficiently.
4. The mixing time is ca. 3 minutes.
5. Use a forced paddle mixer for larger coatings.

Application

1. The mineral bond coat ASOCRET-HS-FLEX is brushed, fully covering and pore-deep, into the prepared, matt damp substrate with a hard brush.
2. The repair mortar ASOCRET-BIS-5/40 is subsequently applied while still wet in the required layer thickness.
3. Then the mortar is compacted and levelled flush with the surface.
4. With large surface applications, the layer thickness can be up to max. 20 mm in one application step!
5. We recommend a multiple skin-layered application for greater layer thicknesses.

Curing

1. After applying ASOCRET-BIS-5/40, the mortar surfaces must generally be protected from rapid drying using suitable measures.
2. To do this, keep the surfaces damp for at least 3-5 days using water mist nozzles, wet jute sheets or even by covering with film.
3. The film must be attached to the surfaces to be treated in such a way that an air exchanged is ruled out.
4. If the mortar surfaces concerned are exposed to direct sunlight, draughts, high temperature fluctuations and/or low humidity, more attention must be paid to the curing measures.
5. If a subsequent waterproofing with cementitious waterproofing slurry is intended, this can be applied as an alternative curing method after approx. 24 hours.

Cleaning tools

Rinse tools with water immediately after use.

Storage conditions

Storage

Cool, dry, protected from sunlight. Min. 12 months in the original canister. Promptly use opened container.

ASOCRET-BIS-5/40


Notes

- Before any concrete restoration measures, the current state must generally be checked by an expert and/or structural engineer. The test report must be made available to the processor before starting the restoration measures.
- Protect surfaces that are not to be treated from the effects of ASOCRET-BIS-5/40!
- Do not add water or new mortar to existing ASOCRET-BIS-5/40 mortar that has already set in order to make it workable again. (Risk of inadequate strength development)

Observe applicable safety data sheet!

Explanations

Conformity / Declaration / Verification

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SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold (Germany) 19 1119-CPR-13112 206438-3	
EN 1504-3 ASOCRET-BIS-5/40 Concrete substitute product for static and non-static relevant restoration EN 1504-3: ZA. 1 a	
Compressive strength	R4
Chloride ion content	≤ 0.05 %
Adhesion	≥ 2.0 N/mm ²
Impaired shrinkage / swelling	NPD
Temperature change tolerance, part 1	≥ 2.0 N/mm ²
Capillary water absorption	≤ 0.5 kg × m ² × h ^{0.5}
Resistance to carbonation	passed
Modulus of elasticity	≥ 20 GPa
Reaction to fire	class A1
Durability	NPD

NPD = "No Performance Determined"

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