

AQUAFIN®-TC07

Flexible 2 component sealing mortar



Material number	Contents	Unit of quantity	Packaging	Colour
204212001	30	KG	Set	light grey

Product features

- resistant to concrete-damaging water, in accordance with DIN 4030
- Hydraulic setting

Advantages

- Resistant to frost, de-icing salts, UV and ageing
- Highly resistant to wear and abrasion
- Can be applied by brush, spatula and spray
- Watertight up to 5 bar
- easy and economical application
- Adheres to matt damp substrates without primers
- Vapour permeable

Fields of application / waterproofing

- As a waterproof protective coating
- On concrete, masonry work, plaster or screed
- For substrates that are subsequently not subject to cracking without pronounced movement
- For positive and negative water pressure
- For interior and exterior use

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Technical Data

Material properties

Product components	2 component system
Base material	Polymer-mortar combination
Consistency	Filler consistency
Density, ready to use product (ISO 1183-1)	approx. 2 kg/dm ³
Crack bridging PG MDS / FPD	to 0.1 mm
Compressive strength (7 days)	approx. 18 N/mm ²
Compressive strength (14 days)	approx. 21 N/mm ²
Compressive strength (28 days)	approx. 25 N/mm ²
Tensile adhesion strength DIN EN 1542	≥ 1 N/mm ²

Mixing

Mix ratio, component A	4 weight proportion
Mix ratio, component B	1 weight proportion
Mixing time	approx. 3 minutes

Application

Substrate/application temperature	from 5 °C to 30 °C
Method of application, max. layer thickness per application step	to 1 mm
Second application step after waiting time	approx. 4 - 6 hours
Foot traffic after	approx. 24 hours
Pot life	approx. 30 - 45 minutes
Pressurised water resilient after	≥ 7 days

Material consumption

Material consumption rate according to the area of application

Application in vertical areas or areas in direct ground:

Immersion depth (m)	Recommended min. consumption / per application step	Recommended min. consumption / total	Dry layer thickness
up to 1 m	1.0 kg/m ²	2.0 kg/m ²	approx. 1.0 mm
1-3 m	1.5 kg/m ²	3.0 kg/m ²	approx. 1.5 mm
over 3 m	2.0 kg/m ²	4.0 kg/m ²	approx. 2.0 mm

Application technology

Aids/tools

- Stirrer (approx. 500-700 rpm)
- Suitable mixing paddle
- Trowel
- Serrated or layer-thickness trowel
- Flat trowel
- Brush
- Spray equipment

Manual processing

- Can be trowelled off
- Applicable with a brush

Machine application

AQUAFIN[®]-TC07 can be mechanically applied. For precise information, see the additional Technical Information No. 43.

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Suitable substrate

- Cement plaster
- Masonry work
- Concrete
- Cement screed (CT)

Substrate preparation

Requirement for substrate

1. Frost-free
2. Load-bearing
3. Even
4. Pore open
5. Sealed in the surface
6. Free of adhesion inhibiting substances

Preparing the details

1. Depressions > 5 mm and mortar pockets, plaster grooves in brickwork, open butt or bed joints, damaged areas, large pored substrates or uneven masonry work must be levelled in advance with ASOCRET-M30 (cement-based mortar).
2. Dips < 5 mm should be levelled with ASOCRET-M30.

Preparing the surface

2. Pre-moisten the dry substrate so that it is matt damp at the time of application.
3. Extremely absorbent and slightly sandy substrates must be primed with ASO-Unigrund-GE or ASO-Unigrund-K.

Pipe penetrations

For the watertight formation of pipe penetrations, the system components of the ASO-Joint-Sleeves are to be used in accordance with their technical data sheets.

Usage

Mixing

1. Fill approx. 80% of the liquid component into a clean mixing bucket and mix with the powder component to produce a homogeneous, lump-free mass.
2. Pre-mix for approx. 3 minutes.
3. Finally, add the rest of the liquid component and mix sufficiently.
4. Additional water addition is not permitted.

Waterproofing

1. Apply AQUAFIN[®]-TC07 in a minimum of two application steps ensuring it is free of pores.
2. The second application step (and those following) may be completed once the first application step cannot be damaged (4-6 hrs, depending on the ambient conditions).
3. An application thickness of more than 2 kg/m² in one application step can lead to cracking.

Movement and connecting joints

For watertight formation of moving and connecting joints, use ASO-Joint-Sealing Tape system components in accordance with their technical data sheets.

Storage conditions

Storage

Store in a frost-free, cool and dry place. At min. 5 - 40 °C for 12 months in the original canister. Promptly use opened canister.

Disposal

Product leftovers can be disposed of in accordance with disposal code AW 17 01 07.

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Notes

- Protect surfaces that are not to be treated from the effects of AQUAFIN[®]-TC07!
- The waterproofing must not be affected by water while it is binding. The effect of water from behind can lead to spalling in case of frost.
- In case of strong sunlight, work against the movement of the sun in shaded areas.
- In rooms with high humidity and/or insufficient ventilation (e.g. water containers), dropping below the dew point (condensation formation) may occur on the surface. This must be avoided by taking suitable measures such as by using condensation dryers. Direct heating or uncontrolled blowing warm air is not permissible.
- AQUAFIN[®]-TC07 may not be subjected to punctiform or linear loads as the surface coating.
- Direct contact with metals such as copper, zinc, and aluminium must be avoided by means of a pore sealed primer. A pore sealed primer is produced via 2 application steps using ASODUR[®]-GBM (see technical data sheet).
- On PVC, gunmetal, and stainless steel flanges, ASO[®] joint sleeves or alternatively ADF[®] pipe gaskets must be installed without voids or wrinkles and integrated seamlessly into the waterproofing.
- Protect the fresh coating from rain, wind, frost and direct sunlight.
- In the service water tanks, temperatures around +10 °C to +15 °C are usually expected. In order to ensure complete hydration of the cement, the coating is kept damp for a sufficiently long period (constant relative humidity of > 80%) and protected against drying. 7 days are generally sufficient for this.
- At high temperatures, the surface may be slightly sticky. In this case, we recommend curing with water to ensure complete hydration.
- No water may be added to AQUAFIN[®]-TC07.
- AQUAFIN[®]-TC07 is suitable for bridging minor static shrinkage or hairline cracks up to 0.1 mm. It is not suitable for bridging larger or non-static cracks.

GISCODE: ZP1 (Komponente A), D1 (Komponente B)

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