

Product information

Screed mortar

ASO®-EZ4

Water repellent special cement



Einsatzgebiete:

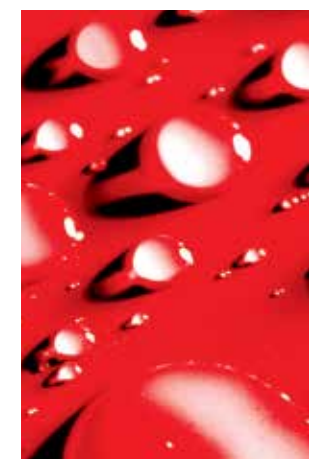
- ASO®-EZ4 is a fibre reinforced special cement for the production of water repellent, low shrinkage cement-based screeds and mortars that permits coverings to be installed early.
- Due to their water repellent properties, screeds and mortars produced with ASO®-EZ4 offer increased protection against frost damage and efflorescence.
- ASO®-EZ4 is especially suitable for producing screeds and mortars for the installation of natural stone, tiles and slabs in external and wet areas such as balconies, terraces, loggia, steps, swimming pools, wet rooms, car washes and water containers.

Technical data:

Basis:	special cement, additives
Mixing ratio:	ASO-EZ4/aggregate: 1:4 to 1:5 parts by weight
Application/ substrate temp*:	+5°C to + 25°C
Working time*:	approx. 60 minutes
Water addition:	dependent on the moisture content of the aggregate used. 33% by weight (damp earth consistency) to max 40% by weight (stiff plastic) relative to the ASO-EZ4 addition,
Mixing method:	Forced paddle mixer, free fall mixer
Consumption:	see table
Foot traffic after*:	approx. 6 hours
Ready to install finishes*:	approx. after 3-5 days**
Fully cured after*:	approx. 7 days
Packaging:	25 kg bag

* Values relate to +23° C room temperature and 65% relative humidity.

***) Readiness to receive finishes to be determined by the carbide (CM) method (see technical data sheet)



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ASO®-EZ4



Water repellent special cement

Properties:

- High strength
- Protects against efflorescence
- Fibre reinforced
- Rapid setting
- Long working time
- Foot traffic after approx. 6 hours*
- Permits early installation of tiles
- For interior and exterior use
- Can be heated to recognised technical regulations after 3 days

Product preparation:

For mixing we recommend the use of suitable mechanical equipment, batch mixers, screed mixers with a 65 mm pipe diameter or other conventional screed mixers e.g. PFT, Putzmeister Mixocret or similar. Pay attention to the moisture content of the aggregate and avoid excess water. The working time is approx. 60 minutes at +20° C. Mixing, application and finishing must follow each other swiftly. Only measure out areas that can be completed within this working time. For bonded screeds firstly brush ASOCRET-HB-flex onto the prepared, e.g. mechanically abraded, concrete substrate. Lay the screed into the wet slurry coat. Watch the moisture content of the aggregate and avoid excess water!

Consumption of ASO®-EZ4 in kg/m²:

Mixing ratio, parts by weight

Screed thickness, cm	1: 4**)	1:5**)
1	4.1	3.4
4	16.3	13.6
5	20.4	17.0
6	24.4	20.4

**) 1: 4 parts by weight equal to approx. 1: 2.7 parts by volume
1: 5 parts by weight equal to approx. 1: 3.3 parts by volume

Application as a bedding mortar:

ASO®-EZ4 to a mix ratio of 1 : 3 by volume (equates to 1 : 4.5 parts by weight) with aggregate (of particle size 0-4 mm diameter) in a suitable compulsory mixer. Minimum mix time 4-5 minutes.

Mixing and application recommendations for water permeable drainage mortars (also known as single grain mortars, mono grain mortars or drain mortars):

ASO®-EZ4 mix ratio: mix 1: 3 by volume (equates to approx. 1 : 4 parts by weight) with aggregate without fines e.g. granite chippings of grain size 2/5 mm, 5/8 mm, 8/12 mm, or pea gravel of grain size 4/8 mm with approx. 7.5 to 9 l water per 25 kg ASO®-EZ4 in a suitable mixing machine. Only add enough water to the fresh mortar until a damp earth consistency is achieved. (Refer to technical data sheet for exact mixing information).

Mixing recommendations for mixing and rotary feed machines:

For a 220 l mixing drum mix a total of 200 kg aggregate with 50 kg ASO®-EZ4. First half fill the mix vessel with aggregate 0/8 (approx. 15 shovels at 7 kg), approx. 5-6 litres of water and 50 kg of ASO®-EZ4 and mix to a plastic consistency for 2 minutes Then fill the mixing vessel with the rest of the aggregate (dependent on the mixing ratio another 15 shovels at 7 kg) and the remaining water. Dependent on the moisture content of the aggregate a total of approx. 10 - 20 litres of water will be necessary. The latter value relates to dry aggregate. In general 0/8 aggregate has a moisture content of approx. 4%, therefore 8 litres of water are already contained in 200 kg of aggregate. Keep to a total mix time of 4 minutes as only then are all components dispersed and the final consistency achieved.

Protect the fresh screed from drying out too quickly e.g. through heat or drafts. The screed is ready to take tiled finishes after three days when installed at 5 cm thick when the ambient and substrate temperatures are at +23 °C and the relative humidity is 50% and when the mixing ratio is 1:4 parts by weight and dry aggregate is used with a particle size distribution between A8-B8 closer to B8 with consistent grading and with a water



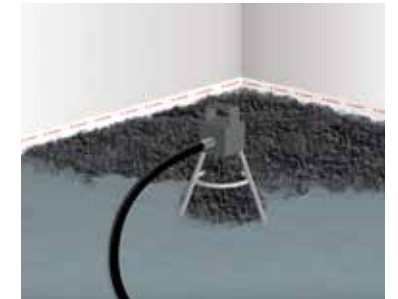
1 Filling the screed machine with aggregate



2 Adding the screed binder at the correct mix ratio to the aggregate



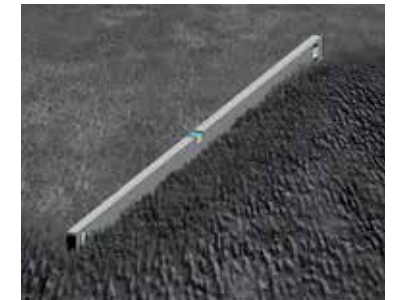
3 Adding the defined water quantity, caution - mix time!



4 Pumping the screed mix



5 Compacting the screed mortar



6 Striking off the screed mortar with a suitable straightedge



7 Rubbing up and finishing the screed surface

addition of 17 litres per 50 kg ASO®-EZ4.

Confirmation should be sought by measuring the moisture content with a carbide hygrometer (CM). For screeds that need to conform to a particular screed quality in accordance with DIN EN 13813, performance tests will be required. These are to be carried out prior to commencing work.