



## Technical Data Sheet

# ASO®-EZ6-Plus

## Rapid setting pre-blended dry mortar

**Art.-No. 2 05500**

### Properties:

- Rapid crystalline water binding
- Shrinkage compensated  
High application assurance
- Constant screed quality
- Long working time
- Foot traffic after 4-6 hours
- Rapid setting
- Tiles can be installed after 1 day
- For interior areas
- Can be heated after 3 days according to technical regulations

### Areas of application:

ASO-EZ6-Plus is a pre-blended mortar for the production of rapid setting, high strength bonded, unbonded, floating or heated cement-based screeds that will take finishes early. These screeds are suitable for use as a wearing finish or as a substrate for tiles, textile flooring, parquet or PVC. For installation the general regulations for cementitious screeds DIN 18560 and DIN 18353 apply. The substrate must be able to take the loading according to DIN 1055.

In wet duty areas of wet duty classification [FBK] 0, A02 in accordance with the ZDB information sheet [\* 1] or wet duty classification A2 in accordance with technical test criteria, a screed produced with ASO-EZ6-Plus can be installed when a suitable SCHOMBURG waterproof coating is applied. In highly demanding wet duty areas such as those in wet duty classes B and C in accordance with technical test criteria or FBK B0 in accordance with the ZDB information sheet [\* 1], screeds produced with ASO-EZ2-Plus or ASO-EZ4-Plus are to be used when a suitable SCHOMBURG waterproof coating is applied.

[\*] see advice section

### Technical Data:

Basis:	special cement, additives, aggregate
Colour:	dark grey
Water addition:	1.6 – 2.0 litres / 25 kg ASO-EZ6-Plus (6.5 – 8.0 % water)
Mix method:	Forced paddle mixer, free fall mixer
Bulk density of fresh mortar:	approx. 2.2 kg/dm <sup>3</sup>
Application/ Substrate temp:	min. approx. +5 °C to max. approx. +30 °C
Working time *):	approx. 45 minutes
Foot traffic after *):	approx. 4 hours
Fully cured after *):	approx. 7 days
Classification:	EN 13813 CTC70-F7-A9
Fire rating:	A1 in accordance with resolution 96/603/EG

\*) Values relate to +23 °C and 65% relative humidity. Higher temperatures reduce and lower temperatures lengthen these given times.

Minimum nominal thickness to DIN 18560:

Beneath tiles	40 mm on insulation or separating layer *2)
Beneath parquet, carpet, linoleum or PVC	30 mm on insulation or separating layer*2)
In general	10 mm bonded

\*2) Thickness reductions are possible due to static calculations and measurements assessed with the pre-blended mortar.

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## Product preparation:

For preparation we recommend the Brinkmann screed boy with a 65mm pipe diameter, or other conventional screed mixers PFT, Putzmeister Mixocret or similar. Pay attention to the water addition and avoid excess water. The working time is approx. 45 minutes at +23°C. Mixing, application and finishing must follow each other swiftly. Only measure out areas that can be completed within this working time. Higher temperatures reduce and lower temperatures lengthen the working time and setting time. For bonded screeds first brush ASOCRET-HB-flex onto the prepared, e.g. mechanically abraded, concrete substrate. Lay the screed into the wet slurry coat. The general regulations for cement-based screeds DIN 18560 and 18353 should be followed for screed laying.

## Mixing recommendations for mixing and rotary feed machines:

In a conventional mixing machine with rotary feed with a 220 litre mix capacity e.g. Brinkmann screed-boy, PFT, Putzmeister Mixocret or similar mix together a total of 250 kg ASO-EZ6-Plus with 16 – 20 litres mains water. This relates to a mixer capacity of approx. 80% - which is generally recommended by the equipment manufacturers.

### Observe the following procedures:

First half fill the mix vessel with 125kg of ASO-EZ6-Plus and approx. 10 litres water. Then fill with the rest of the 125kg of ASO-EZ6-Plus and 6 – 10 litres of water. The total mix time is approx. 3 minutes.

## Mixing recommendations for a free-fall mixer:

First add 4 litres of water, 100kg ASO-EZ6-Plus and a further 2.5 – 4.0 litres of water. Subsequently mix for 1-2 minutes and adjust by adding water to produce a semi-dry to stiff plastic consistency.

Protect the screed from drying out too quickly e.g. from heat or drafts. Screeds are ready to receive tiled finishes after 1 day with a water addition of 2 litres per 25kg

ASO-EZ6-Plus, an ambient and substrate temperature of +23 °C, a relative humidity of 50% and a thickness of 5cm. Confirmation should be sought by measuring the moisture content with a carbide hygrometer.

## Storage & Shelf Life:

6 months when stored dry in the original unopened packaging. Use opened packaging promptly.

## Estimating & Supply:

Consumption: approx. 20kg ASO-EZ6-Plus per m<sup>2</sup> / cm screed thickness  
Packaging: 25 kg bags

## Cleaning & Equipment Maintenance:

Clean tools and equipment with water immediately after use.

## Important advice:

- By high temperatures, direct sunlight and drafts, protect the screed from water loss during drying. To ensure ideal hydration of cement, the screed can be protected during the curing phase e.g. with plastic sheeting or with continuous light misting.
  - Instead of using ASOCRET-HB-flex, an alternative slurry bonding coat can be produced using ASOPLASTMZ diluted 1:1 with water and a screed mortar composed of 25kg ASO-EZ6-Plus and 5kg ASO-EZ6.
  - Please refer to the technical data sheets for the products mentioned above.
  - When too short a mix time is selected or the material is not mixed intensively enough the dispersion of all components is not guaranteed. Early installation of floor finishes and high strength is no longer given.
  - The determination of the screed's readiness to receive floor finishes should be carried out using a carbide hygrometer. Keep to the limiting values (see table 1).
  - Lower temperatures, high humidity and thick screeds delay the setting, drying and achievement of readiness for laying finishes (see also the BEB data sheet "climatic requirements for the drying of
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# ASO®-EZ6-Plus

## Important advice table:

Maximum moisture content of the screed determined with a carbide hygrometer

Floor finish		Heated	Unheated
Vapour impervious finishes		1.8 %	2.0 %
Textile finishes	Vapour barrier	1.8 %	2.5 %
	Vapour permeable	2.0 %	3.0 %
Parquet		1.8 %	2.0 %
Laminate flooring		1.8 %	2.0 %
Ceramic tiles, natural stone/ concrete slabs	Sand: cement fixing	2.0 %	2.0 %
	Adhesive fixing	2.0 %	2.0 %

The measurements with the carbide hygrometer are to be carried out in accordance with the current working instructions of the FBH-AD from the technical information "coordination of cut out areas for heated floor constructions".

screeds"). Trials have shown that at lower temperatures (+5 °C to +12 °C) the binding of the water proceeds at a delayed rate so that the readiness to receive floor finishes was only achieved after 2 days.

- Water that bleeds to the surface indicates too much water (more than 2 litres of water per 25kg ASO-EZ6-Plus).
- ASO-EZ6-Plus can bind up to approx. 8% of its weight of water in a crystalline way. Anything above this level has to evaporate and consequently delays the readiness to receive finishes.
- Where rising dampness is present a installation of a functioning damp proof membrane is necessary prior to laying the screed.
- If necessary add CRAKBLOCKER (24mm) as reinforcement, corrosion protection for screeding mesh is not guaranteed.
- Ventilation is necessary on the building site. The interior and floor temperature must be a minimum of +5 °C during installation and for one week afterwards. De-humidifiers may not be used in the first 3 days.
- Do not add cement or other binders.
- Perimeter, bay, construction and movement joints are to be carried through or incorporated in the

designated position and composed of suitable material e.g. edging strip. Crack control joints are to be cut into the top third of the installed screed.

- Do not add any additives or other materials.
- The relevant current regulations are to be observed. E.g. DIN 18157, DIN 18352, DIN 18560, DIN EN 13813, DIN 1055

The BEB data sheets distributed by the National Association for Screeds and Finishes. The technical information ""coordination of cut out areas for heated floor constructions"

The ZDB data sheets distributed by the Technical Association of the German Tile Industry.

[\* 1] Advice for the installation of waterproofing combined with ceramic tiles in interior and exterior areas.

[\* 3] Movement joints in tiled finishes.

[\* 5] Ceramic tiles, slabs, natural stone and concrete blocks on cement-based screeds over insulation.

[\* 6] Ceramic tiles, slabs, natural stone and concrete blocks on heated cement-based floor constructions.

**Please observe a valid European safety data sheet!**

**GISCODE: ZP1**