



## Technical Data Sheet

# ASO<sup>®</sup>-EZ-LIGHT-Plus

## Lightweight cement-based screed

**Art.-No. 2 05038**

### Properties:

- Very low weight per unit area.
- Especially suitable for renovation work.
- High application confidence.
- Constant screed quality.
- For interior and exterior use.
- Long working time.

### Areas of application:

ASO-EZ-LIGHT-Plus is a pre-blended material for producing screeds with low weight per unit area. Screeds produced with ASO-EZ-LIGHT-Plus are suitable as bonded screeds or unbonded screeds over a separating layer or insulation as well as heated screeds, whether used as a wearing finish or as a substrate for further finishes e.g. tiles, slabs and natural stone. Screeds must be applied following general guidelines for cement-based screeds in accordance with DIN 18560 and 18353. The substrate must be able to take the additional loading in accordance with DIN 1055.

In wet areas the ASO-EZ-LIGHT-Plus screed is to be waterproofed with a suitable SCHOMBURG tanking product e.g. AQUAFIN-2K/M.

### Technical Data:

|   |  |
|---|--|
| Basis:  | special cement, additives,<br>special lightweight aggregate                  |
| Colour:   | grey   |
| Consumption:                                    | approx. 13kg<br>ASO-EZ-LIGHT-Plus per m <sup>2</sup> /cm<br>screed thickness |
| Weight:   | approx. 14 kg/m <sup>2</sup> /cm<br>screed thickness                         |
| Coefficient of thermal conductivity $\lambda$ : | approx. 0.17 W/m °K  |
| Water addition:                                 | 4.5 to 5.5 litres / 25 kg  |
| Mixing method:                                  | Forced paddle mixer,<br>free fall mixer                                      |
| Storage:  | Cool and dry, 12 months in   |

the original unopened packaging. Use opened packaging promptly.

|  |  |
|--|--|
| Application/<br>substrate temp:  | min. approx. +5° C to<br>max. approx. +30 °C                         |
| Classification:<br>Fire classification:  | EN 13813 CTC25-F4<br>A1fl in accordance with<br>resolution 96/603/EG |
| Packaging:   | 25 kg containers   |
| Cleaning:  | Cleans tools and equipment<br>with water immediately after<br>use    |
| Traffic after*):   | approx. 48 hours   |
| Full loading after*):  | approx. 28 days  |
| Working time*):  | approx. 60 minutes   |
| *) The values given relate to +23 °C and 65% relative humidity. Higher temperatures shorten whereas lower temperatures lengthen the given timings. |  |

### Minimum nominal thickness DIN 18560:

|  |   |
|--|---|
| Beneath tiles                            | 45 mm on insulation or a separating layer |
| Beneath parquet, carpet, linoleum or PVC | 40 mm on insulation or a separating layer |
| General                                  | 20 mm bonded                              |

### Product preparation:

For preparation we recommend using the Brinkmann screed boy with a 65 mm hose diameter, or other conventional screed mixers PFT, Putzmeister Mixocret or similar. Observe the water ratio and eliminate excess water. At +20 °C the pot life is 60 minutes. Mixing, laying and finishing must be carried out efficiently and consecutively. The area must only be measured out to a size that can be completed within this pot life. Higher temperatures shorten and lower temperatures lengthen

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the pot life and setting time. For bonded screeds brush apply ASOCRET-HB-flex to the prepared, e.g. by shot-blasting, concrete base. Lay the screed into the wet bonding coat. Installation should be in accordance with the general guidelines for screeds, DIN 18560 and DIN 18353. Shortly after levelling the screed briefly rub the surface and subsequently smoothen. The consistency is correct when a porous open surface is achieved. Too smooth a closed surface indicates too high a water addition.

## Mixing recommendations for mix machines with conveyor feed:

A total of 200 kg ASO-EZ-LIGHT-Plus can be mixed with 36 - 44 litres of clean water in a conventional mixing machine with a 220 litre mix vessel e.g. Brinkmann screed-boy or PFT Putzmeister Mixocret or similar.

Carry out the following procedures:

Firstly fill the mix vessel with 100 kg ASO-EZ-LIGHT-Plus and add approx. 30 litres of water. Afterwards add the remaining 100 kg ASO-EZ-LIGHT-Plus and pour in a further 6 - 14 litres of water. Keep to a total mix time of 2 minutes so that all components are dispersed and the final consistency is achieved.

## Mixing recommendations for free fall mixers:

First pour in 9 litres of water and add 50 kg of ASO-EZ-LIGHT-Plus, and mix for 2 minutes. Adjust the consistency through water addition to a semi-dry to stiff-plastic consistency. Protect the fresh screed from rapid drying e.g. from heat or draughts. We recommend post treating with evaporation protection consisting of either, 1 part ASOPLAST-MZ to 2 parts water, or by covering with polythene.

## Important advice:

- When too short a mix time is selected or the material is not mixed intensively enough then the dispersion of all components is not guaranteed. The determination of the screed's readiness to receive floor finishes should be carried out using a carbide hygrometer. Keep to the following limiting values:

| 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 with heated floor construction". |                     |        |          |

- 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.
- Lower temperatures, high humidity and thick screeds delay the setting time, drying and achievement of readiness for laying finishes (also see the BEB data sheet "climatic requirements for the drying of screeds"). Trials have shown that at lower temperatures (+5 °C to +12 °C) the binding of the water proceeds heavily delayed so that the readiness to receive floor finishes is achieved later.
- Water that bleeds to the surface indicates too much water.
- A functioning damp proof membrane is necessary where rising damp is present in the substrate.
- Ventilation is necessary on the building site. The interior and floor temperature must be a minimum

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of +5 °C during installation and for one week afterwards. De-humidifiers may not be used in the first 3 days.

- Do not mix with other cements or 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.
- 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 with heated floor construction". 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 (January 2005).

[\* 2] Mechanically heavy-duty ceramic floor finishes.

[" 3] Movement joints in tiled finishes.

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

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

[\* 7] Tiled finishes on the exterior of buildings.

Please observe a valid European safety data sheet.

GISCODE: ZP1