



## Technical Data Sheet

# ASO<sup>®</sup>-Flexfuge

## Cement-based joint mortar

**Art.-No. 2 04260**

### Properties:

- Good application and wash-off properties
- Water repellent
- Rapid hardening
- Resilient
- Vapour permeable
- Resistant to freeze/thaw cycles
- Suitable for floor and wall heating
- Colours matched to the ESCOSIL silicone system

### Areas of application:

ASO-Flexfuge is suitable for grouting vitrified and fully vitrified clay tiles, brick tiles, tile slips, floor clinkers in bathrooms, showers and living rooms, on terraces, balconies and loggia. As well as facades, in swimming pools, commercial and industrial areas, and on heated and flow screeds.

Furthermore ASO-Flexfuge is suitable for jointing of natural stones, if the product-specific properties of the natural stone material permit this and discolouration (i.e. through stones physical characteristics) can be eliminated.

We recommend CRISTALLFUGE for the jointing of natural stones. We recommend ASO-Fugenbunt for wall jointing.

### Technical Data:

|                                |   |
|--------------------------------|---|
| Basis:                         | cement, mineral aggregates and high-quality additives |
| Colour:                        | cement grey, anthracite grey, mid grey                |
| Application-/ Substrate temp.: | +5 °C to +25 °C                                       |
| Pot life *):                   | approx. 30 minutes                                    |
| Packaging:                     | 6 kg bag, 25 kg sack                                  |
| Joint width:                   | 4 to 20 mm  |
| Traffic after *):              | approx 2 hours  |
| Loadable after *):             | at the earliest 1 day                                 |
| Compressive strength *):       | approx. 18 N/mm <sup>2</sup> after 24 hours           |

|                       |  |
|-----------------------|--|
| Flexural strength *): | approx. 29 N/mm <sup>2</sup> after 7 days<br>approx. 38 N/mm <sup>2</sup> after 28 days<br>approx. 0.9 N/mm <sup>2</sup> after 24 hours<br>approx. 5.5 N/mm <sup>2</sup> after 7 days<br>approx. 6.0 N/mm <sup>2</sup> after 28 days |
| Storage:              | 6 months in original unopened packaging. Use opened packaging immediately.   |
| Water demand:         | 1.0 – 1.2 l / 6 kg or 4.0 – 5.0 l / 25 kg  |
| Consumption:          | see table  |
| Cleaning:             | with water in the fresh state  |
| Loose density:        | approx. 1.4 kg/dm <sup>3</sup>   |
| Fresh mortar density: | approx. 2.0 kg/dm <sup>3</sup>   |

\*) The figures indicated are related to +20 °C and 65 % relative humidity.

### Consumption table:

| Tile/<br>slab format<br>(in cm) | Joint width<br>(in mm) | Joint depth<br>(in mm) | Approx.<br>consumption<br>per 10 m <sup>2</sup> (in kg) |
|---------------------------------|------------------------|------------------------|---|
| 20.0 x 20.0                     | 4.0                    | 8.0                    | 6.9   |
| 30.0 x 30.0                     | 5.0                    | 8.0                    | 5.8   |
| 30.0 x 30.0                     | 5.0                    | 15.0                   | 10.8  |
| 40.0 x 40.0                     | 5.0                    | 10.0                   | 5.5   |
| 30.0 x 5.0                      | 8.0                    | 10.0                   | 36.1  |
| 24.0 x 11.5                     | 10.0                   | 12.0                   | 31.7  |
| 24.0 x 11.5                     | 10.0                   | 20.0                   | 52.8  |

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# ASO®-Flexfuge

## Surface preparation and product preparation:

Adequately rake out mortar joints once the adhesive has sufficiently set, then wet-clean the tile surface. The adhesive bed must be fully set or discolouration may appear. Pre-wet strongly porous surfaces uniformly with water. Joints must be clean and free from separating media. The time at which grouting may commence depends on the adhesive used and varies from 2 to 72 hours. Mortar beds used in sand : cement fixing must be sufficiently set and uniformly dry. Do not grout surfaces with differing surface temperatures (i.e. in direct sunlight).

The consistency of the grout is to be adjusted dependent on the porosity of the cladding material and the substrate.

1. Mix ASO-Flexfuge with clean water in a clean container. Provide 4.0 – 5.0 l water dependant on the desired consistency. Add 25 kg ASO-Flexfuge and mix until a smooth mass is achieved. We recommend using a suitable mixer at approx. 300 – 500 rpm. After a maturing time of 4 minutes the joint mortar is mixed once again. In order to avoid discrepancies in the colourshade, the mix ratios should be kept consistent.
2. ASO-Flexfuge is filled in wall and floor areas using jointing board, with slight pressure and placed diagonally so that the joint is completely filled, being carefully removed after use.
3. After the initial hardening of the joint mortar (tactile control) wash the outlines. After approx. 10 -15 minutes wash clean with a sponge board.
4. Protect expansion joints for the subsequent application of the elastic jointing with ESCOSIL-2000. After initial hardening, scratch the mortar residues out by washing with a slightly moist sponge.

Potential formations of ceramic mortar (fog) are to be washed off after several hours using a sponge board with clean water. Do not use dry cloths for the cleaning

as the rubbing of the dried joint mortar may lead to discoloration of the fresh joint. Protect the fresh jointing against high temperatures, winds, rain or frost that may negatively influence the curing. In case of unsuitable weather conditions (low air humidity, draught air, wind) and strongly absorbing ceramics, the joint mortar will cure better when the joint diameter is treated with clean water (moistening with the sponge board). The washing water should often be replaced by clean water. For coverings with rough, profiled or porous surfaces, as well as natural stones which are rough at the surface, a test jointing should be carried out (the surface should be slightly moistened or primed with suitable material prior to the jointing). The time of the washing is dependant on the material and the existing climate. After sufficient waiting time the surface is to be smoothed without washing the joints out.

## Important advice:

- Joint mortar which has already begun hardening should not be made workable again through the addition of water or fresh mortar. There is an increased danger of colour discrepancies.
  - Do not powder and remove ASO-Flexfuge with dry material. Increased risk of discolouration exists due to inadequate dissociation of the component parts.
  - Only use clean water and clean tools!
  - Clean the substrates thoroughly prior to jointing!
  - Regard the setting time of adhesives and mortars! Discoloration may occur by grouting too early.
  - Protect the joints from rapidly drying out in drafts and strong sunlight by hanging polythene sheets or repeated wetting of the joints!
  - Protect grouting until hardened from rain and frost!
  - Do not improve ASO-Flexfuge with ASO-Fugenplus! This will drastically shorten the pot life!
  - Joints around tile bays, interruptions and pipe outlets as well as perimeter and connection joints should be sealed with an elastic material such as ESCOSIL-2000, ESCOSIL-2000-ST or ESCOSIL-2000-UW dependant on application.
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# ASO®-Flexfuge

- The use of ASO-Flexfuge does not replace waterproofing measures!
- For maintenance and cleaning of the jointing area we only recommend the use of neutral cleaning agents. After cleaning, the surface is to be rinsed off with clean water. Pay attention to varying absorption rates of the substrate and the joint flanks.
- Irregular effects of moisture due to the construction below, the mortar bed, differences in temperature or covering materials, may lead to colour discrepancies in the joint pattern which do not affect the quality of the joint mortar and may level themselves through positive environmental conditions. We do not guarantee against differences in the colourshade.
- In case of high mechanical wear such as cleaning machines or chemical loads, we recommend the 2-component, highly-wearable epoxy resin joint ASODUR-EK-98!
- Prior to the jointing of border finishes and expansion joints, and to support the mortar structure, polystyrene or foam elements are secured.
- If etching is required, the joints must be wetted sufficiently.
- Only material from the same production batch should be applied within an area.
- To achieve optimal hydration of the cement, adequate moisture is to be provided. This is especially important for non-absorbing stone or tiles; therefore no moist depositories can be expected!
- Refer to the specific product properties when laying natural stone and synthetic stone (tendency to discolour). When doubt exists carry out a grout trial. We recommend grouting natural stone with CRISTALLFUGE.
- Protect surface areas which are not to be treated against the effects of CRISTALLFUGE.

Please adhere to the current EU-safety data sheet!  
Low chromate in accordance with TRGS 613.

GISCODE: ZP1