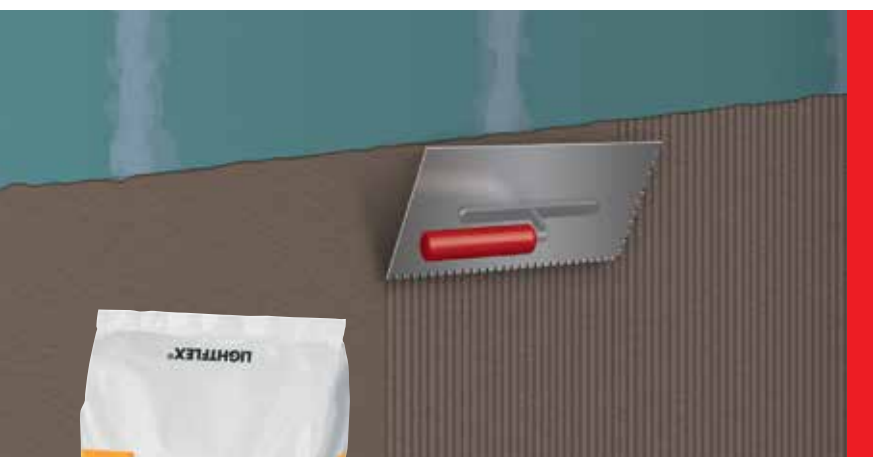


## Product information

Tile adhesives/Thin-bed mortars



### Areas of application:

- LIGHTFLEX® is an extremely high yield, variable use thin-bed, medium-bed or flow-bed flexible adhesive for the installation of large format porcelain (also on walls), vitrified and earthenware tiles and other ceramic finishes, mosaics and natural stone, that is not sensitive to discolouration nor is translucent.
- LIGHTFLEX® can also be used for the preparation of substrates as a levelling compound or repair mortar at thicknesses up to 15 mm.
- LIGHTFLEX® is suited for tiling to all substrates in accordance with DIN 18157, part 1, e.g. concrete, aerated concrete, plaster/render, cement-based and calcium sulphate based heated and unheated (flow) screeds, masonry work, moisture resistant plasterboard and gypsum fibre boards, composite materials in expanded or extruded polystyrene with a mortar coating and reinforcement layer embedded, etc.
- For tiling over mineral-based or dispersion-based SCHOMBURG bonded waterproof membranes.

## LIGHTFLEX®

Multifunctional flexible adhesive  
grey, C2 TE S1

### Technical Data:

Mixing ratio:

- As a thin-bed adhesive:  
7.5 - 8.1 litres water: 15 kg LIGHTFLEX®
- As a medium-bed adhesive:  
7.4 - 7.9 litres water: 15 kg LIGHTFLEX®
- As a smoothing mortar:  
7.4 - 7.9 litres water: 15 kg LIGHTFLEX®
- As a flow-bed adhesive:  
10.2-10.8 litres water: 15 kg LIGHTFLEX®

Application/  
substrate temperature: +5°C to +25°C

Open time\*: approx. 30 mins

Foot traffic/ready to  
grout\*: after approx. 24 hrs

Consumption:


- approx. 1.3 kg/ m<sup>2</sup> with a 6 mm notched trowel
- approx. 1.8 kg/ m<sup>2</sup> with an 8 mm notched trowel
- approx. 2.2 kg/ m<sup>2</sup> with a 10 mm notched trowel
- approx. 1.9 kg/ m<sup>2</sup> with an 8 mm Flowline trowel
- approx. 2.7 kg/ m<sup>2</sup> with a 10 mm Flowline trowel
- approx. 3.2 kg/ m<sup>2</sup> with a 12/20 mm medium bed trowel

Full service conditions\*: after approx. 7 days

Reaction to fire: A1/A1<sub>fl</sub>

Packaging: 15 kg plastic bag

\*at +20 °C and 65 % relative humidity

	
<b>SCHOMBURG GmbH &amp; Co. KG</b> Aquafinstraße 2-8 D-32760 Detmold 04 2 01005	
EN 12004 <b>LIGHTFLEX*</b>	
Cement-based adhesive with increased performance for the installation of tiles in interior and exterior areas	
C2	
Reaction to fire:	Class A1/A1 <sub>fl</sub>
<b>Bond strength, as</b>	
Tensile adhesion after dry ageing:	≥ 1 N/mm <sup>2</sup>
<b>Durability, as</b>	
Tensile adhesion strength after water immersion:	≥ 1 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing:	≥ 1 N/mm <sup>2</sup>
Tensile adhesion strength after freeze/thaw cycles:	≥ 1 N/mm <sup>2</sup>



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# LIGHTFLEX®



## Multifunctional flexible adhesive grey, C2 TE S1

### Properties:

#### • 4 in 1

Thin-bed, medium-bed and flow-bed adhesive as well as repair and levelling mortar up to a thickness of 15 mm

- Good sag resistance
- Up to 90% reduced dust\*
- Up to 65% greater coverage\*
- Especially easy to use with greater yield
- For large format porcelain tiles incl. walls
- For heated screeds
- For interior and exterior use
- Tested to  
DIN EN 12004 C2 TE  
DIN EN 12002 S1

\* compared with conventional cement-based adhesives without lightweight aggregates



### Product preparation:

Mix LIGHTFLEX with clean water in a clean mixing bucket until homogenous. Mixing ratio:

- as a thin-bed adhesive: 7.5 - 8.1 litres water: 15 kg LIGHTFLEX®
- as a smoothing mortar: 7.4 - 7.9 litres water: 15 kg LIGHTFLEX®
- as a medium-bed adhesive: 7.4 - 7.9 litres water: 15 kg LIGHTFLEX®
- as a flow-bed adhesive: 10.2 - 10.8 litres water: 15 kg LIGHTFLEX®

Allow to stand for 4 minutes, then mix thoroughly through once again.

When using as a flow-bed adhesive firstly mix LIGHTFLEX® with approx. 8 litres of water and subsequently mix in the remaining water until a pourable consistency is achieved. Do not mix more material than can be used within the pot life. Spread the mixed adhesive over the substrate and dependent on the tile format comb through with the appropriate notched trowel. Fix the finishing material within the adhesive open time. When installing large format tiles, we recommend that LIGHTFLEX® is modified with UNIFLEX®-B. Modification with this elastifier improves the deformability and tensile adhesion of LIGHTFLEX®. Dependent on the level of modification, S2 deformation class can be achieved which is particularly recommended for larger tiles. This considerably compensates for shear stresses, which can lead to delamination in unfavourable exterior conditions. UNIFLEX®-B is mixed with water for improved application and then mixed with LIGHTFLEX® until homogenous.

Mixing ratio: highly deformable (relates to class C2 S2, deformation > 5 mm):

4.17 kg UNIFLEX®-B : approx. 4.0 litres water : 15 kg LIGHTFLEX®.

### Application:

The substrate must be dry, load bearing sufficiently flat and free from penetrating cracks and separating substances such as oil, paint, laitance and loose components. The substrate surface must have a largely closed texture and its condition must be appropriate for its type. For tiling, the substrate, its preparation and product application must conform to DIN 18157, part 1. Prime absorbent substrates with ASO®-Unigrund.

Heated floors are to be heated prior to installing tiles. The readiness of a substrate to receive finishes is to be determined by the carbide (CM)

- CT ≤ 2.0% (when installing large format tiles 1.5%)
- CA/CFA unheated ≤ 0.5%, heated ≤ 0.3%



1 Cleaned, load-bearing substrate ready for tiling



2 Priming the substrate, e.g. with ASO®-Unigrund



3 Adding the adhesive to a clean mixing bucket



4 Mixing the adhesive



5 Setting out the wall



6 Combing out the adhesive bed



7 Fixing the wall tiles



8 Priming the substrate, e.g. with ASO®-Unigrund



9 Setting out the floor



10 Combing out the adhesive bed



11 Applying a contact layer with large format tiles



12 Laying the floor tiles



13 Finished area ready for use