

# Baunit Fibrous Lightweight Render FL 68

## Product Data Sheet

### 1. Product

Factory prepared dry powder mortar in accordance with EN 998-1, lime based cement bound render for manual and machine application.

### 2. Suitable Uses

Baunit Fibrous Lightweight Render FL 68 lime based render for use as basecoat, for all external and internal areas, including those subject to high humidity, especially onto highly insulating masonry (see overleaf) and rough cast concrete etc. High elastic performance and optimized fibre quantity safeguards against shrinkage cracking. Baunit Fibrous Lightweight Render FL 68 must receive a finishing coat. The low density of FL 68 makes it unsuitable as a background for wall tiles. Do not apply solvent based materials onto FL 68.

### 3. Composition

Sand, cement, lime, mineral and organic lightweight aggregates (EPS), fibres and additives to improve workability and adhesion.

### 4. Performance

Machine applicable lime cement, waterproof render, with organic lightweight aggregate (EPS) and fibres. High yield and good water retention performance and adhesion qualities. High elastic performance safeguards against shrinkage cracking. Once hardened, it is water vapour permeable, frost resistant, waterproof (W 2 acc. EN 998-1), weather resistant and impact resistant.

### 5. Technical Data

Render group:	CS II acc.to EN 998-1
Grain size:	0 – 1.2 mm
Compression strength:	1.5 – 5.0 N/mm <sup>2</sup>
Conductivity value $\lambda_{10, dry}$ (Tabled values acc. EN 1745)	$\leq 0.30$ W/(mK) (for P = 90 %) $\leq 0.27$ W/(mK) (for P = 50 %)
Conductivity value $\lambda_R$	$\leq 0.38$ W/(mK)
Dry density:	ca. 900 kg/m <sup>3</sup>
Elastic Modulus:	> 1500 N/mm <sup>2</sup>
$\mu$ -value:	10 – 15
Water requirement:	9 -10 l/bag = 300 – 335 l/t
Yield:	ca. 33 l/bag = ca. 1100 l/t
Coverage:	ca. 0.9 kg/m <sup>2</sup> /mm
Minimum layer thickness:	as base coat 10 mm
Absorption rate:	W 2 (acc.to EN 998-1)

### 6. Packaging

Paper bags, bag content 30 kg, (35 bags per pallet = 1050 kg)

### 7. Storage

Dry and protected, do not store for longer than 6 months.

### 8. Quality Assurance

The product undergoes in-house monitoring, using a quality management system which conforms to the current international standard EN ISO 9001 and the environmental standard ISO 14001.

## 9. Health and Safety

See separate Health and Safety datasheet

## 10. Background

The background should be dry, stable, dirt and dust free, and able to receive a coating. Basecoats should be fully cured. Smooth concrete surfaces are to be treated with a bonding mortar, for example Baunit Bonding Adhesive MC 55. Highly absorbent backgrounds are to be dampened with water.

## 11. Application

### 11.1 Mixing

Use only clean water, without admixtures. Do not mix with other materials. Baunit Fibrous Lightweight FL 68 can be manually mixed in a bucket or tub, depending on quantity, using an electric hand mixer. FL 68 can then be manually applied using a steel plastering trowel. Mortar mixing pumps or continuous mixers provide a more efficient application of the render.

### 11.2 Application

When used as a basecoat the thickness should be 15mm. For overall basecoat thicknesses > 20 mm or other unfavourable circumstances, additional coats can be applied. Any dubbing coats should be compatible in strength. Each render coat should be ruled off flat with a straight edge. On stiffening roughen up the render using a grid float or similar. Observe the curing time (1 day per mm thickness) before applying the following coat. This is particularly important with low temperatures as these slow down the curing process. To counter rapid drying from strongly absorbent backgrounds, apply the basecoat in two stages in a "wet in wet" application.

### 11.3 Hints

Baunit Fibrous Lightweight Render FL 68 is for masonry with a density > 700 kg/m<sup>3</sup> and/or a thermal conductivity < 0.13W(mK) which are to be rendered with lightweight renders. Masonry with a density < 700 kg/m<sup>3</sup> thermal conductivity < 0.10 W(mK) should have an additional meshcloth reinforcing applied on the west facing elevation. For plinth areas use lightweight special plinth render Baunit Plinth Render LS 62.

Control the heating of internal rooms with care, avoiding excessively rapid drying out.

In the case of thinly applied coats or rapid dehydration, dampen the finished work with water at regular intervals.

In plinth areas use the appropriate plinth render. Baunit Plinth Render SL 62

Stainless steel plaster beads should not be fixed with gypsum products.

Protect other materials such as glass, ceramics or metal etc from contamination with appropriate coverings.

**Do not apply or allow to dry in air or wall temperatures below +5°C and falling or above + 30 °C.  
Observe the guidelines stated in EN 998-1.**