Lightweight Render FL 68

Product

Factory prepared dry powder mortar in accordance with DIN 18557 and DIN EN 998-1, lime cent render for machine and hand application. Lightweight render LW according to DIN EN 998-1.

Intended use

Lightweight lime cement render for all thermally insulating masonry (see overleaf) and rough cast concrete walls etc. For use in all external and wet areas. Lightweight Render FL 68 is for use a base coat only and must receive a mineral render finish coat. An intermediary reinforcement coat of **Bonding Mortar MC 55 W** and embedded **Reinforcing Mesh** must be applied to **Lightweight Render FL 68** before receiving synthetic render finishes or wall tiles in domestic kitchens and bathrooms. Do not apply solvent based materials onto FL 68.

Composition

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

Properties

High yield, machine applicable, water resistant base coat render, with organic lightweight aggregate (EPS) and fibres. Good water retention and adhesion. High elasticity, (low E-module), reduced shrinkage and optimized fibre additives safeguard against cracking. After curing it can withstand weathering and frost, is water vapour permeable impact resistant.

Technical Data

Mortar group:	CS II acc.to DIN EN 998-1
Aggregate size:	0 – 1,2 mm
Compression strength:	1,5 – 5,0 N/mm²
Thermal Conductivity value $\lambda_{10,dry}$	≤ 0,30 W/(mK) (P = 90 %)
(Tabled values acc. EN 1745)	≤ 0,27 W/(mK) (P = 50 %)
Thermal Conductivity value λ_R	≤ 0,38 W/(mK)
(Tabled values acc. DIN V 4108-4)	
Dry density:	ca. 900 kg/m³
Dynamic E Module:	> 1500 N/mm²
µ-value:	10 - 15
Water requirement::	9 - 10 l/sack = 300 – 335 l/t
Yield:	ca. 33 l/sack = ca. 1100 l/t
Coverage:	ca. 0,9 kg/m²/mm
Minimum layer thickness:	15 mm
Water absorption rate:	W 2 (acc.to DIN EN 998-1)

Packaging

Paper sacks, sack content 30kg, (35 Sacks per pallet = 1050 kg)

Storage

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

Quality Assurance

The product undergoes regular inspection and quality control including a thorough inspection of raw materials upon delivery. Baumit operates a Quality Management System which conforms to the current international standard DIN EN ISO 9001 and an Environmental Management System which conforms to the current international standard ISO 14001, certified by TÜV.

Health and Safety

Hazard label:	Xi	irritant
R-phrases:	R 36/38	Irritates the eyes and skin
	R 41	Risk of serious eye damage
S-phrases:	S 2	Keep away from children
	S 24/25	Avoid contact with skin and eyes
	S 26	In case of eye contact, rinse with plenty of water and see medical assistance
	S 37/39	Wear suitable protective clothing and safety goggles
	S46	If swallowed, seek medical advice immediately and show this container or label

Low chromate content according to TRGS 613

Technisches Merkblatt Revision 06-07/09 Lightweight Render FL 68

Background

The background should be stable, free from frost, efflorescence dirt and dust and able to receive a render coat. Render backgrounds must be well keyed and fully cured. The areas to be rendered must be reasonably dry. Smooth concrete surfaces should be suitably prepared, for example with **Bonding Mortar HM 50**. Highly suction backgrounds should be dampened with water using a mist sprayer.

Application

Use approximately 9-10 litres of clean water per sack for mixing. Mix with an electric hand mixer or a continuous horizontal mixer. Do not use a drum mixer. Do not mix with other materials or admixtures. Lightweight Render FL 68 can be manually applied for small areas. Larger areas are best tackled using standard mortar spraying pumps.

The minimum base coat render thickness for external areas is 18 mm minimum (15mm in localized areas). Thickness requirements > 20 mm should be built up with multiple coats, each being well keyed and cured (1 day per mm thickness) before applying the next. This is particularly important in low temperatures which slow down curing! To prevent rapid dehydration of the render from high suction backgrounds, apply the coat in two passes, wet-on-wet. Levelling coats which have been applied prior to the **Lightweight Render FL 68** must be compatible with the render system in terms of strength. Rule off the render with a straight edge, filling in any undulations to produce a smooth flat surface. On hardening, key the surface with a plasterers comb for receiving further coats of **Lightweight Render FL 68** or with a grid float for receiving thin coat **Décor Finish Renders**.

Guidelines

Thermally insulating masonry with a thermal conductivity < 0.13 W/(mK) should be rendered with Lightweight Render defined as LW according to EN 998-1.
For masonry which has not sufficiently dried out before rendering with **Lightweight Render FL 68**, we recommend an additional protective reinforcement coat application (**Bonding Mortar MC 55 W** with **Reinforcing Mesh** embedded) before applying the finish render coat.

Lightweight Render FL 68 can receive all **Baumit Décor Finish Renders** except **SilikonPutz.**

Prepare **Lightweight Render FL 68** with a 2 – 3 mm filler coat application of **Bonding Mortar MC 55 W** to receive **Baumit Décor Finish Renders** with an aggregate size < 2mm.

Do not apply in direct sunlight, rain or wind. Protect the working area appropriately until fully cured. (Scaffold nets).

High humidity and low temperatures can delay drying times considerably.
If rapid dehydration of the render occurs, dampen the finished work with water (spray mist) at regular intervals.

Install render beads with lime cement mortar. Do not use gypsum materials.
Protect other materials such as glass, ceramics, bricks, natural stone or metal etc from contamination with appropriate coverings. Wash away material splashes immediately before they harden. Rinse tools with water after use.

Do not apply in air or wall temperatures below +5ºC and falling or above + 30 °C.
Observe the guidelines in DIN EN 998-1, DIN 18550 and DIN 18350 (VOB, Part C).

Our user recommendations, which we provide in support of the buyer/user on the basis of our experience, correspond to the present state of the art technology and practice. They are not binding and do not constitute any contractual legal relationship or any accessory obligations from the purchase contract. They do not relieve the buyer of the obligation to check our products for himself as to their suitability for the intended application. The general rules of construction engineering must be observed. The right to make changes in the interests of progress and the improvement of the product or its application is reserved. This Technical Information invalidates and supersedes all previous issues. Please refer to our Internet pages for the latest information.

Baumit GmbH, Reckenberg 12, 87541 Bad Hindelang,
Telefon: 0 83 24 / 9 21 – 0, Telefax: 0 83 24 / 9 21 – 4 70,
Email: info@baumit.de, Internet: www.baumit.com