

# Baumit MP 69

## Lightweight mineral render

<b>Product</b>	Factory prepared dry powder mortar in accordance with EN 998-1. Lime-cement render for manual and machine application. Designated as a lightweight render LW according to EN 998-1.																				
<b>Composition</b>	Sand, cement, lime, lightweight mineral aggregates and additives to improve workability and adhesion.																				
<b>Properties</b>	High yield, lightweight render with a high proportion of mineral lightweight additives (no EPS). Good water retention and adhesion, high flexibility (low E-module) and reduced shrinkage to safeguard against cracking. Once cured the render is water vapour permeable and resistant to weathering, frost attack, impacts and scratches.																				
<b>Intended use</b>	Lightweight rendering mortar for direct application onto newly erected standard and highly thermally insulating masonry ( $\lambda \geq 0.11$ W/mK) in internal and external areas. Suitable as a basecoat and plain finish topcoat in a two coat render system or as a basecoat to receive Baumit decorative topcoats, Baumit skimming plasters or tiles. Baumit <b>MP 69</b> is also suitable for external application on masonry with lower lambda values when protected with an additional reinforcement coat.																				
<b>Technical data</b>	<table><tr><td>Designation:</td><td>LW - CS II (EN 998-1)</td></tr><tr><td>Aggregate size:</td><td>0 - 1.2 mm</td></tr><tr><td>Compression strength:</td><td>1.5 - 5.0 N/mm<sup>2</sup></td></tr><tr><td>Thermal conductivity <math>\lambda_{10,dry}</math>:</td><td><math>\leq 0.44</math> W/mK (P = 90%,tabulated) <math>\leq 0.39</math> W/mK (P = 50%,tabulated)</td></tr><tr><td>Water vapour diffusion resistance <math>\mu</math>:</td><td>ca. 10 - 15</td></tr><tr><td>Capillary water absorption:</td><td>W 2 (EN 998-1)</td></tr><tr><td>Water requirement:</td><td>ca. 8 - 9 l/30 kg sack</td></tr><tr><td>Minimum layer thickness:</td><td>18 mm basecoat, 3 mm topcoat (external) 10 mm basecoat, 3 mm topcoat (internal)</td></tr><tr><td>Maximum layer thickness:</td><td>20 mm per coat</td></tr><tr><td>Consumption:</td><td>ca. 10 kg/m<sup>2</sup> /10 mm thickness</td></tr></table>	Designation:	LW - CS II (EN 998-1)	Aggregate size:	0 - 1.2 mm	Compression strength:	1.5 - 5.0 N/mm <sup>2</sup>	Thermal conductivity $\lambda_{10,dry}$ :	$\leq 0.44$ W/mK (P = 90%,tabulated) $\leq 0.39$ W/mK (P = 50%,tabulated)	Water vapour diffusion resistance $\mu$ :	ca. 10 - 15	Capillary water absorption:	W 2 (EN 998-1)	Water requirement:	ca. 8 - 9 l/30 kg sack	Minimum layer thickness:	18 mm basecoat, 3 mm topcoat (external) 10 mm basecoat, 3 mm topcoat (internal)	Maximum layer thickness:	20 mm per coat	Consumption:	ca. 10 kg/m <sup>2</sup> /10 mm thickness
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<b>Health and safety</b>	Please refer to the Material Safety Data Sheet, produced in accordance with Article 31 and Annex II of Regulation No 1907/2006 of the European Parliament and Council from 18.12.2006, available at <a href="http://www.baumit.com">www.baumit.com</a> or alternatively request the MSDS from the manufacturer.																				
<b>Storage</b>	Store in dry conditions and protected on pallets for up to 6 months.																				
<b>Quality assurance</b>	In house monitoring through our own laboratories. Third party inspection is carried out through a certified body.																				
<b>Packaging</b>	Sack 30 kg, 1 pallet = 35 Sacks = 1050 kg																				
<b>Substrate</b>	Substrates must be sound, clean, dry, free from frost, dust efflorescence and not water repellent. Prepare smooth concrete or very low suction surfaces with Baumit <b>StarContact</b> . Prepare mixed masonry substrates and natural stone with a spatterdash coating. High suction substrates should be dampened with water using a mist sprayer. Do not saturate aircrete substrates! Preparation and levelling coatings must be fully cured, well keyed and compatible with the render system. Refer to Baumit Technical Support for further advice regarding preparation of substrates.																				
<b>Application</b>	<b>Mixing:</b> Baumit <b>MP 69</b> can be mixed with clean water in a tub to a lump free, creamy consistency with an electric hand mixer. Automated continuous horizontal mixers may also be used. For small areas the mixed render can be manually applied. For larger areas the fresh render can be fed into a mortar pump for spray application.																				

Alternatively, mortar mixing pumps provide an all-in-one mixing and spraying solution.

### **Basecoat render:**

The render is applied onto the substrate to the required thickness in one or two passes (fresh-in-fresh) depending on the degree of suction from the substrate and ruled off with a straight edge, filling in undulations to produce a flat and even render layer.

On hardening the surface is consolidated with a wooden/plastic float or scraped with a grid float in tight circular motions in preparation for Baunit decorative topcoat renders. The surface may also be finished with a sponge float for receiving a topcoat of Baunit **MP 69** (3 mm thick) or Baunit **Kalkin Glätt** (lime skim finishing plaster). The drying times (1 day/mm thickness) must be observed.

### **A maximum render thickness of 20 mm may be applied in a single application.**

Where necessary, greater thicknesses must be built up in multiple coats of at least 10 mm in thickness. Upon setting the surface of each additional coat is horizontally keyed with a plasterers comb to receive the following coat. Drying times between each coat (1 day/mm thickness) must be observed.

### **Topcoat render:**

Baunit **MP 69** is applied on to the basecoat and smoothed out flat with a trowel or spatula to a thickness of 3 mm. Shortly afterwards the surface is lightly rubbed over with a fine sponge float in tight circular motions to produce a fine, plain finish. A paint finish is required for this topcoat render application.

The Baunit decorative topcoat renders are also suitable for application onto Baunit **MP 69**. Refer to the relevant Product Data Sheets.

### **Reinforcement coat:**

An additional reinforcement coat of Baunit **StarContact** with embedded Baunit **StarTex** reinforcing mesh to a thickness of 3 - 5 mm applied over the cured Baunit **MP 69** basecoat render is recommended in the following circumstances:

- the masonry substrate has a lambda  $\lambda < 0.11$  W/mK
- the render system will be exposed to severe or very severe weather conditions
- the substrate is comprised of mixed masonry
- the selected Baunit decorative topcoat render has an aggregate  $< 2$ mm

### **Further information**

The air, material and background temperature must be above +5 ° C during application and curing. Protect the facade from direct sunlight, rain and strong winds (i.e. with scaffold nets). In hot and/or windy weather dampen the finished work at regular intervals with a water mist sprayer to aid hydration. High air humidity and low temperatures can prolong drying times considerably. Observe the minimum standing time of 1 day per mm render thickness before applying further coatings and finishes. Protect other materials such as glass, ceramics or metal etc from contamination with appropriate coverings.

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