

# LL 66 Air-entrained lightweight render

Technical Data Sheet Last Updated Sept 2004

Product	Factory prepared dry powder mortar in accordance with DIN 18557 and DIN EN 998-1, general purpose, lime cement bound render for manual and machine application.	
Suitable Uses	Lightweight lime cement render for use as basecoat and finishing coat, for all external and internal areas, including those subject to high Humidity, and onto most types of masonry and (See overleaf) rough cast concrete etc. Ideal background for wall tiles, paints, mineral and resin decor render finishes.	
Composition	Sand, cement, lime, mineral lightweight aggregates and additives to improve workability and adhesion.	
Performance	Mineral, machine applicable lime cement, lightweight, render. Increased concentration of air pores, without organic additives(EPS). Can be sponge finished. Good water retention performance and adhesion qualities. Once hardened, it is water vapour permeable, frost resistant, waterproof (W 2 acc. DIN EN 998-1) weather resistant and has high impact resistance.	
Technical Data	Mortar group:	CS II acc.to DIN EN 998-1 (P II acc.to DIN 18550)
	Grain size:	0 – 1,2 mm
	Compression strength:	1,5 – 5,0 N/mm <sup>2</sup>
	Conductivity value (Tabled values acc. EN 1745)	≤ 0,93 W/(mK) (für P = 90 %)
	Conductivity value (Tabled values acc. DIN V 4108)	≤ 0,83 W/(mK) (für P = 50 %)
	μ-value:	≤ 1,00 W/(mK)
	Water requirement:	15 – 20
	Yield:	7 – 8 l/sack = 200 – 230 l/t approx. 29 l/sack = ca. 830 l/t
	Coverage:	approx. 1,2 kg/m <sup>2</sup> /mm
	Minimum layer thickness:	as base coat 10 mm, as final coat 3 mm
	Absorption rate:	W 2 (acc.to DIN EN 998-1), water-repellent (acc.to DIN 18550)
Packaging	Paper sacks, sack content 35 kg, (36 sacks per pallet = 1260 kg)	
Storage	Dry and protected, do not store for longer than 6 months.	
Quality Assurance	The product undergoes in-house monitoring, using a quality management system which conforms to the current international standard DIN EN ISO 9001 and the environmental standard ISO 14001, certified by TUV.	
Health and Safety	Hazard label:	Xi irritant
	R-phrases:	R 36/38 Irritates the eyes and skin R 41 Risk of serious eye damage R 43 Contact with skin can cause sensitisation
	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
	Low Chromate content according to TRGS 613	

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 HM50. Highly absorbent backgrounds are to be dampened with water.
Application	<p>Use only clean water, without additives. Do not mix with other materials. LL 66 can be manually mixed in a bucket or tub, depending on quantity, using an electric hand mixer. LL 66 can then be manually applied using a steel plastering trowel.</p> <p>Mortar mixing pumps or continuous mixers provide a more efficient application of the render.</p> <p>When used as a basecoat the thickness should be 10mm <u>Minimum</u>.</p> <p>As a finishing coat 3 mm is sufficient. For overall basecoat thicknesses &gt; 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 plaster thickness) before applying the following coat. This is particularly important by low temperatures as these slow down the curing process! To counter rapid drying from strongly absorbent backgrounds, apply the basecoat in two stages "wet in wet".</p>
Hints	<p>For masonry with a density &lt; 700kg/m<sup>3</sup> and/or a thermal conductivity &lt; 0.13W(mK) are to be rendered with lightweight renders acc. DIN 18550, Part 4 (FL 68, SL 67, MP 69, MP 69 W). For plinth areas use lightweight special plinth render LeichtSockelputz LS 62.</p> <p>Do not apply in direct sunlight, rain or wind and protect the finished work until fully cured (Scaffold nets). High humidity and low temperatures can increase curing times considerably.</p> <p>Observe the minimum standing time of 1 mm render thickness per day before applying further coatings and finishes.</p> <p>Control the heating of internal rooms with care, avoiding excessively rapid drying out.</p> <p>In the case of thinly applied coats or rapid dehydration, dampen the finished work with water at regular intervals.</p> <p>In plinth areas use the appropriate plinth render.</p> <p>Stainless steel plaster beads should not be fixed with gypsum products.</p> <p>Use AM 51 (Attaching Mortar). Clean tools after use with water.</p> <p>Protect other materials such as glass, ceramics or metal etc from contamination with appropriate coverings.</p> <p>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 "Render onto Ziegel masonry", DIN EN 998-1, DIN 18550 and DIN 18350 (VOB, Part C)</p>

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