

Baumit Universal Render K 39

Product Datasheet

1. Product

Factory prepared dry powder mix in accordance with EN 998-1, general purpose, lime based render for manual and machine application

2. Suitable Uses

Baumit Universal Render K 39 is a lime based traditional render that can be used as basecoat and finishing coat, for all external and wet room areas, from the cellar to the roof. Can be applied onto most types of masonry, rough cast, concrete etc. Can be coated with lime based products such as Baumit Coloured Render Topcoat KRP, Baumit Decorative Roughcast Finish SEP, Baumit Equalisation Paint, silicate render finishes etc, all conventional paints and wall tiles.

3. Composition

Sand, high calcium lime and white cement and other additives to improve workability and adhesion.

4. Performance

For external use. Meets the physical and biological demands of the built environment. Suitable for application in designated wet rooms and other exposed areas. One material, from the basement to the roof. Flexible finishing options.

5. Technical Data

Render group:	CS II according EN 998-1
Grain size:	0 – 2.2 / 3.5 mm
Compression strength:	1.5 – 5.0 N/mm ²
Thermal conductivity value $\lambda_{10,dry}$ (Tabled values acc. EN 1745)	≤ 0.93 W/mK (for P = 90 %) ≤ 0.83 W/mK (for P = 50 %)
μ -value:	approx. 10
Water requirement:	8.5 – 9.5 l/bag = approx. 245 – 275 l/t
Coverage:	approx. 1.4m ² @15mm per bag
Water absorption:	W 2 (EN 998-1)

6. Packaging

Paper bags, bags content 25kg, (42 bags per pallet = 1050 kg)

7. Storage

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

8. Quality Assurance

The product constantly undergoes third party and in-house monitoring, using tested and certificated quality management systems conforming 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

Baumit Universal Render K 39 is suitable for application onto mineral backgrounds such as concrete, masonry and lime and cement based basecoats. The background should be stable, dust and dirt free, and able to receive a coating. Render backing coats must be fully cured. Smooth concrete surfaces must be prepared with Baumit Bonding Adhesive MC 55. Highly absorbent backgrounds should be dampened with water.

Damp or dissimilar backgrounds are vulnerable to cracking. Apply multiple coats of Baumit Universal Render K 39 with Baumit Alkali Resistant Meshcloth AG 01, to the top third of the basecoat thickness and apply further basecoat in a wet on wet operation to these areas.

11. Application

11.1 Mixing

The quantity of clean water required for mixing ranges from approximately 8 to 9 litres per bag (this is a guide only; the actual amount of water required depends on the consistency desired for normal site practice). Baumit Universal Render K 39 can be manually mixed and applied. Larger areas are more suited to machine application using a spray render pump.

11.2 Application

Baumit Universal Render K 39 is to be applied as a basecoat to a thickness of 15mm and can be used as a final topcoat to a thickness of 5-8mm provided the K 39 is painted with Baumit Equalisation or other breathable water based paint. If the required overall render thickness exceeds 23mm, it is advisable to achieve this with multiple applications.

Unless carrying out the work in two passes in a wet on wet application, it is important to ensure that each coat is sufficiently dry (1 day of drying per mm thickness) and properly "keyed" (with a grid float or plasterers comb) before applying the next coat.

Low temperatures can delay setting times; it is advised that this product should not be applied when local temperatures are below +5°C.

Apply K 39 in two passes, wet-in-wet, onto backgrounds with high absorption.

12. Hints

Do not apply in direct sunlight, rain or wind and protect the finished work until fully cured. (Scaffold nets).

Do not apply onto masonry with a density less than 700kg/m³ and/or a thermal conductivity lower than 0.13 W/mK. (See Baumit Fibrous Lightweight Render FL 68)

High humidity levels and low temperatures can delay curing times considerably.

Observe the minimum standing time of 1 mm render thickness per day before applying subsequent coatings and finishes.

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

Do not apply when the air or wall temperature is +5°C and falling.

Observe the guidelines stated in EN 998-1.