



# Baumit DP 85

Factory prepared dry powder thermally insulating render basecoat.



## Product Overview

Factory prepared dry powder thermally insulating render basecoat in accordance with DIN EN 998-1 with fine organic grain. For use on the façade on all types of brick/blockwork. Manual and machine application.

## Composition

Cement, lime, EPS lightweight aggregates and additives to improve workability and adhesion.

## Properties

- Mineral, modified and easy to use contact mortar with a range of uses.
- Once cured, the product has good bonding strength.
- Water vapour permeable and resistant to weathering, water ingress and frost penetration.
- For use in external and internal areas.
- Thermally insulating machine applicable render, with organic lightweight aggregate (EPS).
- Low E-module and regulates the internal environment.

## Application

- Thermally insulating render with EPS additives, applied as a single or multiple basecoat application in external and internal areas of old and new buildings, historical buildings including half-timbered masonry and concrete.
- Good water-vapour permeability and helps to achieve ideal internal climatic conditions.
- Applied directly to uneven backgrounds without requiring levelling coats.
- It is ideally suited for external areas.
- A condensation risk calculation should be made before applying Baumit DämmPutz DP 85 in internal areas.
- Baumit DämmPutz DP 85 is not suitable as a topcoat or for application in plinth areas.

## Technical Data

Mortar group	CS I
Fire-resistance class:	A2-s1, d0
Min. coating thickness:	30 mm for strong and 20mm for normal absorbent substrates
Compression strength:	< 2 N/mm <sup>2</sup>
μ-value:	≤ 15
Thermal conductivity	≤ 0.070 W/mK ≤ 0.066 W/mK (ρ=90% tabulated)

Consumption	
Water requirement	8.5 - 9.5 l/bag

## Delivery Format

9 kg bag, 1 pallet = 40 bags = 360 kg

## Storage

Store in dry conditions and protected on pallets for up to 9 months.

## Subsurface

Substrates must be sound, clean, dry, free from frost, dust and efflorescence.

## Subsurface Pre-treatment

Keyed substrates with medium suction can receive a direct application of the product. Varying suction from mixed masonry substrates can be equalized with a full coating of Baumit VS 60 splatterdash mortar. Substrates with low suction and smooth surfaces (concrete, calcium-silicate bricks) must be prepared with a suitable contact mortar, e.g. Baumit HM50 or Baumit multiContact MC 55 W. Baumit DP 85 can be applied in multiple passes (fresh on fresh) onto substrates with high suction and if required dampen down the substrate 1 day prior to application.

## Processing

### Mixing:

Baumit DP DP 85 can be mixed with clean water in a bucket to a lump free, creamy consistency with an electric hand mixer. Material which has started setting must not be remixed with water. Mixing with other products (e.g. anti-frost agents or accelerating agents) is not permitted. Automated continuous horizontal mixers may also be used. For small areas the render can be manually applied. For larger areas the freshly mixed mortar can be fed into a machine for spray application. Alternatively, a mortar mixing pump will provide an all-in-one mixing and spraying solution. A special mixing shaft designed for thermal render must be used with the mixing pump.

The minimum base coat thickness is not less 30 mm. Thicknesses of up to 50mm may be applied in one application. Thicknesses > 50 mm or other unfavourable circumstances must be made up in multiple coats. Each coat should be ruled off flat with a toothed straight edge. On stiffening roughen up the surface using a grid float or similar. The following coat can be applied after 1-2 days. The maximum overall thickness is 100mm. Allow the Baumit DP 85 to harden and dry (standing time 1 day per 5 mm thickness) before applying further coatings. This is particularly important by low temperatures as these slow down the curing process.

### Preparation for receiving topcoats:

Baumit DP 85 must be prepared with a reinforcement coat of Baumit MC 55 W contact mortar with embedded Baumit StarTex mesh to a thickness of 3 – 4mm. Baumit renders are recommended. The maximum thickness for Baumit topcoat renders is 5mm.

Note: The reinforcement coat can be omitted if Baumit KRP scratched finish topcoat render is to be applied. The surface of the Baumit DP 85 should be keyed with a stiff broom before hardening.

## Notes and General Informations

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) until fully cured.

High air humidity and low temperatures can prolong drying times considerably. Observe the minimum standing time of 5 mm render thickness per day before applying further coatings and finishes.

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 drying times considerably.

Stainless steel plaster beads should not be fixed with gypsum products. Clean tools with water after use.

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 EN 998-1.**

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