

# Baumit DämmPutz 85

## Thermal render

<b>Product</b>	Factory prepared dry powder mortar in accordance with DIN 18557 and DIN EN 998-1, Thermally insulating render basecoat with EPS additives in accordance with DIBT Approval Certificate: Z-23.13-1606, for manual and machine application.	
<b>Intended use</b>	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. <b>DämmPutz DP 85</b> has good water-vapour permeability and helps to achieve ideal internal climatic conditions. <b>DämmPutz DP 85</b> can be 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 <b>DämmPutz DP 85</b> in internal areas. <b>DämmPutz DP 85</b> is not suitable as a topcoat or for application in plinth areas.	
<b>Composition</b>	Cement, lime, EPS lightweight aggregates and additives to improve workability and adhesion.	
<b>Properties</b>	<p>Mineral, modified and easy to use contact mortar with a range of uses. Once cured, the product has good bonding strength, is water vapour permeable and resistant to weathering, water ingress and frost penetration. For use in external and internal areas.</p> <p>Thermally insulating machine applicable render, with organic lightweight aggregate (EPS). Low E-module and regulates the internal environment.</p>	
<b>Technical data</b>	Mortar group:	CS I (DIN EN 998-1)
	Aggregate size:	0 – 3 mm
	Compression strength:	0.4 – 2.5 N/mm <sup>2</sup>
	Capillary water absorption:	W 1 (DIN EN 998-1)
	Thermal conductivity category:	T 1 (DIN EN 998-1)
	Thermal conductivity value $\lambda_{10, dry}(EN 1745)$ :	$\leq 0.066$ W/(mK) (P = 90 %, tabulated)
	Thermal Conductivity value $\lambda_{10, dry}(DIN V 4108-4)$ :	$\leq 0.07$ W/(mK)
	Water vapour diffusion resistance $\mu$ -value:	ca. 8
	Water requirement:	8.5 – 9.5 l/sack
	Yield:	ca. 54 l/sack = approx. 5400 l/t
	Consumption:	ca. 1.0 l/m <sup>2</sup> /mm
	Minimum layer thickness:	30 mm
	Fire Classification:	B1 (DIN 4102)
<b>Health and safety</b>	A Material Safety Data Sheet is available on request.	
<b>Storage</b>	Store in dry conditions and protected on pallets for up to 12 months.	
<b>Quality assurance</b>	Continual monitoring and inspection of the quality of all raw materials upon reception. The manufacturer has a TÜV tested and certified Quality Management System in accordance with the international standard EN ISO 9001 and a TÜV tested and certified Environmental Management System in accordance with the international standard EN ISO 14001.	
<b>Packaging</b>	Sack 9 kg. 1 pallet = 40 sacks = 360 kg	
<b>Substrate</b>	Substrates must be sound, clean, dry, free from frost, dust and efflorescence. 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 <b>Vorspritz VS 60</b> spatterdash mortar. Substrates with low suction and smooth surfaces (concrete, calcium-silicate bricks) must be prepared with a suitable contact mortar, e.g. Baumit <b>HM50</b> or Baumit multiContact <b>MC 55 W</b> . The <b>DämmPutz 85</b> 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.	

### Application

#### Mixing:

Baumit **DämmPutz DP 85** can be mixed with clean water in a tub 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 contact mortar can be manually applied. For larger areas the freshly mixed mortar can be fed into a mortar pump 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 **DämmPutz 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 **Dämmputz 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 – 4 mm. 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 **Dämmputz DP 85** should be keyed with a stiff broom before hardening.

### 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) 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, DIN 18550 Part 3 and DIN 18350 (VOB, Part C)**

This Product Data Sheet has been issued by:

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