

Multimörtel

White universal mortar for bonding and reinforcing insulation boards in the ALLFAtherm thermal insulation systems and as feltable finishing render/plaster. Suitable for the restoration of old ETIC-systems and rendered/plastered façades and as renovation mortar.



Product characteristics

Properties	<ul style="list-style-type: none"> • Fibre-reinforced universal mortar • Normal rendering/plastering mortar as per DIN EN 998-1 • Reaction to fire: "non-combustible" or "fire-retardant" according to the configuration of the individual systems • Weatherproof, water-repellent as per DIN V 18550 • Good felting properties • High compression strength • High diffusion capability • Excellent adhesion • Easy processing • Adhesive and reinforcing mortar in one product • Suitable for the application by machine equipment • Long open time • Very high stability • Ecologically compatible
Areas of application	Exterior and interior
Suitable substrates in detail	<ul style="list-style-type: none"> • For the application as adhesive and reinforcement mortar in ETICS • As repair and renovation mortar on existing, sound render surfaces. • As thin-layer bonding finish • As feltable finishing plaster. • In all ALLFAtherm insulation systems. • As crack repair (heavy-duty reinforcement) on façade surfaces.

Material description

Binder	<p>Lime</p> <p>Cement</p> <p>Synthetic resin dispersible polymer powder</p>
Density	Approx. 1.5 kg/dm ³ kg/dm ³
Water vapour permeability	≤ 0,05 m as per DIN EN ISO 7783 with 4 mm layer thickness
Water absorption coefficient (w-value)	< 0,1 kg/(m ² · h ^{0.5}) as per DIN EN 1062-3
Layer thickness	Thickness of reinforcement layers from 3 to 7 mm. For the application as render/plaster in ETICS the corresponding approval for ETICS must be followed.
Mortar group	P II according to DIN V 18550
Resistance to pressure	Class CS III as per DIN EN 998-1
Adhesive tensile strength	≥ 0,08 N/mm ² as per DIN EN 998-1

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Diffusion resistance	$\mu < 15$ gem. DIN EN 998-1
Average consumption (short text)	Fixing insulation boards with adhesive Spot-and-bead method: approx. 3 - 4 kg/m ² Mechanical bead method (meander-shaped): approx. 6 - 7 kg/m ² All-surface adhesion: 4 - 6 kg/m ² Reinforcement approx. 4.5 kg/m ² Felt plaster approx. 1.5 kg/m ² per mm layer thickness
Average consumption	The consumption varies depending on the application technique and the substrate. It is therefore advisable to determine the exact consumption figure by producing a sample area.
Colour shade	Natural white
Storage	Cool and dry on wooden grids
Thinning	Water

Substrates

Suitable substrates	All usual mineral substrates (plasters/renders, concrete, masonry) Solid, mineral and organic existing paint layers Insulation boards complying with the current ETICS approvals
Substrate conditions	Fixing insulation boards with adhesive The substrate has to be firm and sound, grease- and frost-free. Remove coarse, protruding mortar or concrete parts, level out larger unevennesses using an appropriate mortar. Check existing render for stability and cavities and existing coatings for bearing strength. Non bearing renders and coatings have to be entirely removed. If necessary, substrates have to be primed. The adhesion on bearable existing paint layers or synthetic resin plasters is also possible, however, this requires an additional mechanical fixing. Reinforcement The substrate must be clean, dry, frost-free, firm and sound as well as free from efflorescences, algae, moss, fungal attack, sinter layers and release agents. Follow the building regulations (in Germany VOB, Part C, DIN 18363, Section 3). Mount the insulation boards level as well as flush and plumb in the corner area. The reinforcement can be effected once the bonding of the insulations boards has hardened (after 3 days at the earliest at + 20 °C and 65% relative humidity).
Substrate conditions	The reinforcement takes place, once the bonding of the insulations boards has hardened (after 3 days at the earliest at + 20 °C and 65% relative humidity) onto clean and dry insulation boards that were mounted level, without offset, as well as flush and plumb in corner areas. For the renovation of rendered façades damaged by cracks, the substrate must be clean, dry, firm and sound and free from efflorescences, sinter layers and release agents. Remove coarse, protruding mortar or concrete parts, level out larger unevennesses using an appropriate mortar. Check existing render for stability and cavities and existing coatings for bearing strength. Non bearing renders and coatings have to be entirely removed. If necessary, substrates have to be primed. Existing paint layers (basement ceilings) Existing paint layers have to be firm and sound. In case of doubt, the carrying capacity has to be checked by trying to tear off a piece of tissue. For this purpose embed a piece of tissue (about 50 x 50 cm) into the adhesive mortar, with a projection of 10 - 20 cm. Try and tear it off after a sufficient drying time (at least 7 days). If the adhesive mortar peels off extensively from the substrate, this substrate is not suitable for a sole adhesion of insulation boards. An additional anchoring using a sufficient number of dowels (such as ceiling insulation screwed plug DDS-Z) will be necessary or the removal of the existing paint layer. If necessary the substrate has to be primed before applying the adhesion.

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Application

Application method	Application by spraying or trowel
Spraying data	Standard continuous mixers Mixing pumps with an output of at least 10 L, e.g. inotec inoCOMB Picco Business, PFT Ritmo M + L, PFT G4, M-Tec plastering machine m 300 or mono mix, etc. Accessories: compressor, base render sprayer, air valve 12 - 16 mm.
Coating system	Priming with heavy reinforcement: If necessary apply a primer coat with Kieselit-Grundierfarbe or Grundierfarbe WP. Finishing coat: After curing of the reinforcement layer, apply a priming coat in system with the following finishing render.
Application	Mix bag content (25 kg) into approx. 6 litres of clean tap water, avoiding lump formation. After a curing time of approx. 5 minutes stir thoroughly again. Bonding Insulation Boards Apply the mortar to the back of the insulation board using the spot-and-bead method. This involves a bead of adhesive around the outside and individual spots over the remaining area of the insulation boards. When bonding mineral wool insulation boards it might be necessary to apply a first thin mortar layer to improve the initial adhesion. Mount the insulation boards level, flush and plumb in mutually offset layers. There should be no protruding boards. If necessary, smooth down EPS insulation boards by sanding. Take care to ensure that none of the mortar enters the board joints. Plugging may only take place once the mortar has hardened (about 48 hours). Embedding Mesh Prepare Multimörtel as stated above and apply generously with the smoothing trowel in an even layer. Place cut-to-size Gittermatte (glass fabric mesh) lengths overlapping by 10 cm (also at corners and edges), starting from the top. Press them on and spread mortar over the whole surface. The application takes place "wet-on-wet". Alternatively the reinforcement can be carried out in several working steps. For this apply the mortar with a notched trowel (notching: 10 x 10 mm) as first step. After an appropriate drying time apply again mortar for embedding the fabric. The fabric mesh must lie centrally up to the the upper third of the evenly thick reinforcement layer. Before full-coverage embedding of the mesh, embed corner angles (Eckwinkel) centrally in the mortar, ensuring overlap (10 cm) to protect corner areas of windows and doors, etc. At corners and openings in buildings also use the corner reinforcing components Gewebe-Eckpfeil or Sturzeckwinkel (specially shaped corner angel for lintels). To increase the impact protection of the thermal insulation before reinforcing with Gittermatte (fabric mesh) place the reinforcing fabric VWS-Panzergewebe into the mortar. Panzergewebe must not overlap, but should form butt joints instead. Then apply Gittermatte over it. Felting Once the mortar has begun to set use a moist sponge float to felt down. If required, wet again. Repair Mortar Wet damaged areas first (prime first if necessary). Fill the damaged areas with the stirred material and allow to dry. Priming of the full area should take place before further treatment.
Application hints	The following regulations have to be observed and to be complied with during the application: ALLIGATOR application guidelines, the relevant valid building approvals, the current ALLFAtherm application brochure and in Germany BFS Fact Sheet No. 21, DIN 55699 as well as Technical System Information "Compendium ETICS and Fire Protection" published by the professional association Wäremedämmverbundsysteme (ETICS). Do not apply under a glaring sun, during strong wind or on warm substrates.
Note	The figures given for parameters are average values. Due to the use of natural raw materials in our products, the actual value determined on the individual supplied product may differ slightly without affecting its suitability. These data refer to the white respectively standard product. Tinting may cause deviations.
Practical hints	Dark Colour Shades on ETICS Colour shades with a light reflectance value ≥ 20 are possible on ETICS without limitations. On request, darker shades are possible based on a specific TSR-formulation. Please observe the information regarding colour stability with brilliant and intensive hues.
Temperature limit	Between + 5° C and + 30° C for substrate and ambient air during processing and drying.

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Drying time	At + 20° C for substrate and ambient air and 65% relative humidity (RH), final hardness after approx. 4 - 6 days. Depending on layer thickness, low temperatures and higher humidity, the drying time may be extended. Working time (pot-life): approx. 2 hours at + 20° C.
Tool cleaning	Immediately after use with water

Information

Product code	ZP01
Hazard statements and safety advice	This mineral powder product reacts alkaline. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Keep out of reach of children. Do not breathe dust or mist. Wear protective gloves/ protective clothing/ eye protection/ face protection. If swallowed: Rinse mouth. Do not induce vomiting. If in eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention.
Observe safety data sheets	Further details: See Safety Material Data Sheet (MSDS)
VOC content (in gram per litre)	< 1 g/l
Waste disposal	Only completely emptied containers should be given for recycling. Dispose dried/hardened product residues as construction site/demolition waste.

Container size

Content		EAN code	Article no.
25 KG	Papiersack	4002822011208	794924
800 KG	Einweg-Container	4002822012533	803850
1000 KG	Silo/Big-Bag	4002822011949	800206

This data sheet cannot deal with all types of application arising in practice. Therefore, we cannot be held responsible for their content. These instructions do not release the purchaser / applicator from his responsibility of professionally examining the substrate and determining the suitability of the product in consideration of the project characteristics. In case of queries please request the technical assistance of ALLIGATOR FARBWERKE.