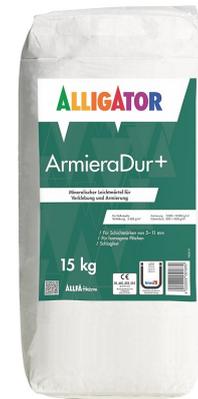


ArmieraDur +

Mineral, fibre reinforced lightweight mortar with excellent working properties for the reinforcement of façade insulation boards.



Product characteristics

Properties	<ul style="list-style-type: none"> • Mineral premixed dry mortar with lightweight aggregates • Reinforcement layer thicknesses of 5 - 11 mm • Very low consumption • Ideal for homogenous surfaces and areas that are subjected to sidelight • Also suitable for bonding insulation boards • Weatherproof • Highly diffusion-capable • Excellent adhesion • Very good working properties • Can be applied by machine equipment
Areas of application	Exterior and interior
Suitable substrates in detail	In all ALLFAtherm insulation systems.

Material description

Binder	<p>Cement</p> <p>Lime</p> <p>Synthetic resin dispersible polymer powder</p>
Ingredients	Lightweight aggregate materials
Density	Approx. 0.9 kg/dm ³ (bulk density) kg/dm ³
Water vapour permeability	< 0.1 m according to DIN EN ISO 7783
Water absorption coefficient (w-value)	< 0.1 kg/(m ² · h ^{0.5}) according to DIN EN 1062-3
Layer thickness	Thickness of reinforcement layers from 5 to 11 mm. For the application as rendering in ETICS the corresponding approval for ETICS must be followed.
Diffusion resistance	$\mu \leq 20$
Average consumption (short text)	<p>Fixing insulation boards with adhesive</p> <p>Spot-and-bead method: approx. 3 - 4 kg/m²</p> <p>Mechanical bead method (meander-shaped): approx. 6 - 7 kg/m²</p> <p>All-surface adhesion: 4 - 6 kg/m²</p> <p>Bonding</p> <p>approx. 3.5 kg/m²</p> <p>Reinforcement</p> <p>approx. 5.0 - 10.0 kg/m² (approx. 0.9 kg/mm layer thickness)</p> <p>Corner Protection</p> <p>approx. 0.8 - 1.0 kg/m</p>

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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.

Application

Application method	Application by spraying or trowel
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	Material Preparation Add the contents of a 15 kg bag into 6 litres of tap (potable) water and mix carefully until the mixture is free of lumps. Allow to stand and swell for about 5 minutes and stir up 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 remaining area of the insulation boards. When bonding mineral wool insulation boards, the mortar must be applied first thinly 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 rigid polystyrene foam 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 36 hours). Do not attempt to make already stiffening material workable again with water.

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Embedding mesh:

Prepare the mortar as stated above and apply generously in an even layer using the smoothing trowel. Place cut-to-size Gittermatte lengths (reinforcing mesh) 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". The fabric mesh must lie centrally in a reinforcing layer of even thickness. Before full-coverage embedding of the mesh, embed corner angles (Eckwinkel) centrally in the mortar, ensuring overlap (10 cm) to protect corner regions 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). In order to increase the impact protection of the thermal insulation before reinforcing with Gittermappe (fabric mesh) place the reinforcing fabric VWS-Panzergewebe into the mortar. The reinforcing fabric must not overlap, but should form butt joints instead. Then apply Gittermatte over it.

Application hints

The following regulations have to be observed : the technical data sheet of each product, the relevant valid building approvals, the current ALLFATHERM application brochure "Verarbeitung von ALLFATHERM-Dämmsystemen", DIN 55699 and in Germany BFS Fact Sheet No. 21 and the guidelines referred therein, 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.

Adjacent areas, particularly glass, ceramics, clinker, need to be masked carefully, as the product may affect the surface.

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.

Sidelight

Unfavourable lighting conditions (sidelight) may occur for instance after the subsequent installation of lights. This fact must be known before works. Specific requirements on evenness and uniformity of the coating have to be previously agreed upon.

Temperature limit

Between + 5° C and + 30° C for substrate and ambient air during processing and drying.

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.

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Container size

Content		EAN code	Article no.
15 KG	Papiersack	4002822021795	869753
500 KG	Einweg-Container	4002822021863	871495
600 KG	Silo/Big-Bag	4002822021870	871497

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.