Data Sheet

ETICS Light Mortar XL 3532

Mineral adhesive and reinforcement plaster with organic lightweight aggregates

Field of application

For bonding and reinforcing ETICS hard foam, ETICS mineral wool and ETICS mineral wool lamella insulation boards in the Brillux ETIC System. Particularly suited for medium- to thick-layer reinforcements with layer thicknesses of 4–10 mm in the Brillux ETICS System on ETICS mineral wool and ETICS mineral wool lamella insulation boards.

Properties

Mineral, very economical light mortar in powder form. With good stability, long open time, extremely easy to use and low consumption. Weather-resistant, water-repellent and extremely water-vapor-permeable. Can be applied by hand or with a machine. In system build-up “schwerentflammbar” (flame-retardant) or “nichtbrennbar” (non-combustible).

Material description

Color shade	Natural white
Base material	Mineral bonding agent with organic lightweight aggregates
Bulk density	Approx. 0.9 kg/dm³
Water vapor permeability	(diffusion-equivalent air layer thickness): μ ≤ 10
Water absorption coefficient	w-value < 0.1 kg/(m²·$h^{0.5}$)
Layer thicknesses for reinforcement	Min. 4 mm to max. 10 mm
Packaging	15 kg bagged goods 600 kg Big-Bag

Brillux ..more than paint

Use

Water addition

Approx. 6.5 liters per 15 kg bag.

Compatibility

Do not mix with other materials.

Mixing

Mix ETICS Light Mortar XL 3532 with clean, cold water. To do this, mix the material into the prepared water with a powerful, slow-running agitator (min. 900 watt) and stirring rod (plaster spiral stirring rod) or continuous flow mixer. Mix until a lump-free, paste-like mixture is achieved. Mix again after a curing time of approx. 5 minutes. The mortar is applied by hand with a stainless steel smoothing trowel or suitable mixing conveying devices.

Pot life

Approx. 2–2½ hours depending on the weather.
Never attempt to restore solidifying material to application consistency or dilute with water.

Consumption (on level substrates)

For bonding
In the edge-beading lump method: approx. 3.0 kg/m².
For machine application on the substrate (60 % partial surface bonding of precoated mineral wool lamella insulation boards): approx. 5.0 kg/m².
For full-surface bonding of precoated mineral wool lamella insulation boards (with a notched trowel, e.g. 15x15 mm): approx. 4.0 kg/m².

For reinforcement
Approx. 0.9 kg/m² per mm layer thickness.
Determine the exact consumption by means of a test application on the object to be coated.

Application temperature

Do not apply at air and object temperatures below +5 °C and above +30 °C, including during the curing time.

Drying (+20 °C, 65 % relative humidity)

Insulation boards bonded with ETICS Light Mortar XL 3532 can be anchored and reinforced at the earliest after 3 days depending on the weather.
Reinforced surfaces up to 6 mm can be recoated with mineral lightweight render at the earliest after 2 days; after 5 days at the earliest with other top coats.
Allow for a longer drying time with thicker layer thicknesses and if the temperature is lower and/or the humidity is higher.

Bonding

Depending on the insulation board to be bonded, the ETICS Light Mortar XL 3532 can be applied on the insulation board or the substrate.

Substrate preparation

The substrate must be clean, solid, dry, stable, load-bearing, with good adhesiveness, and free from efflorescence, sintered layers and separating agents. On smooth substrates, e.g. prefabricated concrete structures, we recommend performing a test adherence to assess the adhesion.
The substrate must be pre-treated in accordance with its actual condition and the requirements. Chip off projecting mortar or concrete parts, even out larger substrate unevennesses with a suitable mortar, e.g. plaster from plaster mortar group PII. Check existing plaster for solidity and cavities; check existing coatings for load-bearing capacity. Remove non-load-bearing plaster and coatings completely. Stabilize substrates with Lacryl Deep Penetrating Primer ELF 595 as required. Also refer to VOB Part C, DIN 18345, Section 3.

Bonding

Adhesive application on the insulation board

Hard foam insulation boards
Apply the mixed mortar with a stainless steel application tool or with a machine as a bead around the edge and as lumps of adhesive over the surface on the rear side of the insulation board (min. 3 lumps).
The bead of adhesive must have at least 5 cm contact with the substrate all around. Position insulation boards with applied adhesive immediately and press in place. Once the board has been pressed on, the adhesive surface must total at least 40 %.

Mineral wool insulation boards
Apply the mixed mortar with a stainless steel application tool or with a machine as a bead around the edge and as lumps of adhesive over the surface on the rear side of the insulation board (min. 3 lumps). To guarantee the bonding, first work the material into the surface of the insulation boards (press filling) and apply the required quantity of adhesive in a second work step. Position insulation boards with applied adhesive immediately and solid press in place firmly. Once the board has been pressed on, the adhesive surface must total at least 40 %.

Mineral wool lamella insulation boards
Apply the mixed mortar over the full surface of the precoated ETICS Mineral Wool Lamella Insulation Board 3611 and comb through with a notched trowel 15 x 15 mm.

Adhesive application on the substrate with ETICS hard foam and mineral wool lamella insulation boards

The mixed mortar is applied with a suitable worm conveyor pump machine in vertical, snake-like strips on the pretreated substrate, so that the mortar beads cover at least 50 % or 60 % of the substrate. The mortar beads should be around 5 cm wide and be applied with a spacing of max. 10 cm. If substrate unevennesses are to be evened out, first apply a thin layer of adhesive, allow it to harden and then apply the relevant quantity of adhesive.

Press the insulation boards into the fresh adhesive bedding immediately and within 10 minutes at the latest. During bonding, the ETICS insulation boards must be moved around slightly on the substrate. Skin formation on the adhesive should be avoided. The extent of the possible initial adhesive application is based on the open time of the ETICS Light Mortar XL 3532 depending on the weather and object parameters. For full-surface application on the substrate (only advisable for even, smooth substrates), the adhesive must be combed through with a notched trowel (15x15 mm) after application.

Reinforcement

Apply the mixed ETICS Light Mortar XL 3532 on the insulation boards with a machine or by hand with a stainless steel trowel with full coverage and an adequate layer thickness. Then comb through the mortar with a notched trowel (15x15 mm) (do not scratch through to the substrate). Place ETICS Reinforcement Fiber Mesh 3797 in the mortar and fill and level.
For reinforcement with larger layer thicknesses (> 4 mm), we recommend applying an initial thin layer of mortar and then applying the material in an adequate layer thickness and combing through as outlined above.

During application and drying, protect the surfaces from direct sunlight, strong wind, and moisture impact.

Further information on reinforcement can be found in the "ETICS Reinforcement Fiber Mesh 3797" Data Sheet.

Top coat

After the curing and drying time for the reinforcement layer, the top coat is applied with Rausan (organ. bound render), silicone render, Silcosil (silicone-reinforced render), silicate render or flat facing bricks in conjunction with the relevant system primer depending on the respective Brillux ETIC System. For top coats with Brillux mineral lightweight render, no prime coat is required.

Cleaning tools

Clean tools immediately after use with water.

Storage

Store in a cool, dry location protected from moisture.

Declaration

Product code ZP1.
Comply with the specifications in the current Safety Data Sheet.

Notes

Mask surfaces Mask window sills and attachment parts and cover glass, bricks, natural stone, painted or anodized surfaces carefully.

Thick-layer reinforcement For thick-layer reinforcement (> 4 mm) we advise also using the ETIC Click-On Profile 3685 to ensure a clean formation of the bottom system termination. For easier corner preparation, we advise using the ETICS Mesh Corner Profile DS 3686 and the ETICS Window Joint Profile 3707 for clean formation of driving-rain-proof connections on windows and doors, for example, if the size of the window and installation situation permit.

Reinforcement protection Do not apply in direct sunlight and protect from drying out quickly.

Mechanical application For mechanical application, follow the instructions in the manufacturers' operating instructions.

Further information Follow the instructions on the data sheets of the products used.

Remark

This Data Sheet is based on extensive development work and years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

When a new version of this Data Sheet with updated information is published, the previous version no longer applies. The current version is available on our website.

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