BaseTec 3540

BaseTec 3540

for bonding, reinforcing, and as a moisture protection coating in the Brillux ETICS System; can only be used in conjunction with BaseTec 3541 (component B)

BaseTec 3540 (component A)

Properties

- Dispersion material to be mixed; with high bond strength
- Adheres to bitumen
- Insensitive to moisture
- Water-vapor-permeable
- Long open time
- Easy to use
- Can only be used in combination with BaseTec 3541 (component B)

Field of application

For use as adhesive and reinforcement plaster and as moisture protection for vertical sealing in the Brillux ETICS System.

Material description

Color: Light gray
Base material: Special dispersion binder with mineral filler materials.
Density: approx. 1.2 g/cm³
Packaging: 20 kg
(Component B - BaseTec 3541 in a separate container)

Storage

Cool and frost-free. Reseal opened, unmixed containers tightly.

Declaration

Note
Contains preservatives.

Water pollution classification
WGK 1, according to VwVwS.

Product code
BSW20.

Comply with the specifications in the current Safety Data Sheet.

BaseTec 3541 (component B)

Properties

- Special low-chromate system hardener with especially high uniformity
- The container size has been adapted to the mixing ratio with BaseTec 3540.

Field of application

Special additive components for mixing with BaseTec 3540 (component A)

Material description

Color: Gray
Base material: Portland cement with 0.1–5% flue dust
pH:11–13.5 (T = 20 °C in water, water-solids ratio 1:2)
Bulk density:
approx. 0.9–1.5 g/cm³
Packaging: 20 kg

Storage

Can be stored in a cool, dry place for approx. 12 months in the unopened original container. Store protected from contamination. Do not use an aluminum container, because the materials are not compatible. Close the opened container tightly, and apply as soon as possible.
In the event of improper storage (ingress of moisture) or overlong storage, the chromate reducers contained in the product lose their efficacy prematurely, and in the event of contact with the skin, a sensitizing effect of the binder cannot be ruled out.

Declaration

Note
Do not eat or drink or smoke while working. Wear a dust mask and safety glasses in dusty atmospheres. Wear protective gloves to avoid contact with the skin.

Water pollution classification
WGK 1, according to VwVwS

Product code
ZP1.

Comply with the specifications in the current Safety Data Sheet.

Use

Mixing ratio
20 kg (100 wt%) Add BaseTec 3541 (component B) to 20 kg BaseTec 3540 (component A). To increase the stability when bonding, up to max. 130 wt% can be added.

Mixing
Immediately before application, mix BaseTec 3540 and BaseTec 3541 in the specified ratio with a paint stirrer to create a lump-free, paste-like mixture.

Thinning
If required for brush application after mixing, add up to approx. 5% water to obtain an applicable consistency. If material is to be used for bonding and as reinforcement plaster, do not thin.

Compatibility
Mix only with BaseTec 3541 in the specified ratio. Do not mix with other types of materials.

Pot life (at +20 °C)
Depending on substrate and object parameters, the mixed material can be used for approx. 2–3 hours. After that time, neither dilute the material again nor continue to use it.

Consumption
On level substrates, without adding component B
For bonding: approx. 2.0 kg/m².
For reinforcement: approx. 1.3 kg/m².
As a protective coating on smooth substrates, e.g. reinforcement plasters: approx. 0.5 kg/m² per layer.
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.

Tool cleaning
Clean immediately after use with water.

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

Hydraulically and physically drying. As a primer or undercoat, recoatable after a drying time of at least one day. Bonded insulation boards or reinforcement layers should be allowed to dry adequately before further system build-up; the drying period depends on the temperature and relative humidity. Based on our experience, a minimum curing time of 3 days is sufficient. Allow for a longer drying time if the temperature is lower and/or the humidity is higher.

Bonding

The adhesive should be applied differently depending on the field of application of the insulation boards.

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 performed a test bonding to assess the adhesion. Moisture penetration into the wall material from the inside or due to rising damp must be ruled out. All necessary horizontal and vertical moisture barriers and basement waterproofings must be in place. Reinforcement and render layers, brickwork etc. to be coated must have dried completely Check existing plaster for solidity and cavities; check existing coatings for load-bearing capacity. Remove non-bearing plaster and coatings completely. The compatibility of any existing coatings with the adhesive mortar must be verified by an expert. Also refer to VOB Part C, DIN 18345, Paragraph 3.

Perimeter insulation in the soil
Apply 6–8 lumps of the mixed adhesive to each perimeter insulation board 3829 or 3537.

Base insulation including transition (approx. 30 cm) into the soil
Depending on the substrate unevenness, apply 10 x 10 or 15 x 15 mm of adhesive mortar to the entire surface of the insulation boards with a notched trowel or over a partial area with the edge-beading lump method. For a straight ending of the insulation boards, it is important to ensure that the system is sealed against moisture to the bottom with the adhesive. To achieve this, the adhesive joint between the insulation board and the structure must be completely sealed. Where necessary, apply additional adhesive mortar between the insulation board and the wall and then smooth it.

Reinforcement

Reinforcement layer in the base and transition area
For reinforcement in the base and transition area, mix BaseTec 3540 with BaseTec 3541 and apply the mixture with a stainless steel trowel in a film thickness of approx. 2 mm such that it complete covers the insulation boards.
Insert ETICS Reinforcement Fiber Mesh 3797 without folds and bubbles into the wet reinforcement layer and overlap the individual fabric strips by approx. 10 cm. Then cover them with a second layer of reinforcement plaster wet in damp. The overall layer thickness of the reinforcement should be approx. 3 mm. Before performing surface reinforcement, all exterior corners and edges in the base area must be provided with a vertical and flush corner reinforcement, which extends down to approx. 30 cm into the soil (transition area into the soil) with ETICS Fabric Corner Protection Profiles 3763 or ETICS Aluminum Corner Protection Profiles 3787, also fully embedded in the reinforcement plaster.

Special details must be observed for the reinforcement depending on the form of the system ending in the soil. With a chamfered system ending in the transition area, the reinforcement layer must extend down to the existing basement waterproofing. With a straight system ending in the transition area or ending at the perimeter insulation, the reinforcement ends approx. 3–5 cm before the insulation board edge.

Detailed information on the reinforcement in the “ETICS Reinforcement Fiber Mesh 3797” Data Sheet and in the Data Sheets of the reinforcement plasters.

For top coats with ceramic coverings, the reinforcement layer must be applied in a layer thickness of approx. 6 mm, in two layers, wet in moist. To achieve this, follow the instructions in the ETICS Reinforcement Fiber Mesh CT 3714 (Ceramic Tile) Data Sheet.

Top coat in the base area
After the curing and drying time of BaseTec 3540 in the base area, apply the top coat using, e.g., Rausan, Silicone render, Silcosil, Silicate render, Pebbledash render or flat facing bricks, always in conjunction with the respective system primer. When using ceramic coverings, the gluing takes place directly on BaseTec 3540 without previous priming.

Moisture protection coating

Protection coating in the transition area
The reinforcement layers and top coats of the ETIC Systems must always have a BaseTec 3540 moisture protection coating up to approx. 5 cm above the top ground surface in the base area. For use as a double moisture protection coating, always mix BaseTec 3540 with BaseTec 3541 in the specified mixing ratio. If necessary, create a suitable consistency by adding up to approx. 5% water.

To protect the lower edge of the reinforcement layer and the top coat from moisture, a double protection coating of BaseTec 3540 must be applied in the lower area, either up to an open perimeter insulation or the existing basement waterproofing.

Notes

Not a tested basement waterproofing
BaseTec 3540 is not suitable for use as basement waterproofing.

Definition base area
The base area is the area of a facade that is exposed to splash water up to a height of approx. 30 cm above the top ground surface.

Definition transition area
The transition area is the area with connection to the ground on the outer wall and refers to the area from approx. 5 cm above to approx. 30 cm below the top edge of the ground or ground level.

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

Remark

This Data Sheet has been prepared taking into account the current applicable German laws, standards, specifications and codes of practice. All details have been translated from the current German version. The contents do not form a legal contract. The user and/or the purchaser is not released from the responsibility of checking that our products are suitable for the proposed use. In addition our Terms of Conditions and Payment apply.

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

Brillux
Weseler Straße 401
48163 Münster
GERMANY
Phone +49 251 7188-0
Fax +49 251 7188-105
info@brillux.de
www.brillux.com