

ETICS Multiflex 3521

WDVS WDVS Multiflex 3521

**Dispersion material to be mixed with cement for
gluing, reinforcing and as moisture protection
paint in all Brillux ETIC-Systems**

Properties

Dispersion material to be mixed with cement, with high bond strength for flexible use. Sticks to bitumen, is insensitive to moisture and water-vapor diffusable. Long open time and easy to use. Tested as flexible water-proofing mass for vertical water-proofing according to DIN 1048, Part 5, Test Certificate No. 21 1071 8 99.

Field of application

As gluing mortar for gluing plinth and underground insulation boards. As reinforcing material for embedding ETICS Glass Fibre Mesh 3797 in skirting and splash water areas and in transition areas with soil contact. As additional splash water protection paint on reinforcing layers in skirting area and top coat (moisture protection) of reinforcement layer and plaster layers in the soil (transition area).

Material description

Color: grey due to cement portion natural white.

Bonding agent basis: special dispersion bonding agent with mineral filler materials

Density: approx. 1.2 g/cm³

Packaging: 20 kg plastic container

Use

Thinning

Addition of cement
Add 100 weight % of fresh cement CEM I 32.5 R (Portland cement).
To increase stability when using material for gluing, add up to a max. of 130 weight % of cement.

Mixing

Directly before using ETICS Multiflex 3521, add the required quantity of fresh, dry cement and, using a stirrer, mix until a homogeneous, paste-like mass is obtained.

Tinting

If required for painting applications, mix with water (up to approx. 5%) to obtain a ready-for-use consistency.
If material is used for gluing and reinforcing, do not thin.

Compatibility

Only mix with cement CEM I 32.5 R (Portland cement) in specified ratio. Do not mix with other materials.

Pot life (at 20°C)

Depending on substrate and object conditions, the mixed material can be used for approx. 2 to 3 hours. After that time, do not dilute the material again nor continue to use it.

Consumption (without cement portion on level substrates)

For gluing: approx. 2.0 kg/m²
For reinforcement: approx. 1.3 kg/m²

As protection coat on smooth substrates, e.g. reinforcing masses: approx. 0.5 kg/m² per coat.

Determine exact consumption by way of a test application on the object.

Application temperature

Do not use below +5 °C and above +30 °C air and object temperature. Also ensure the temperature is not below/above these limits while the material is setting.

Drying (+20°C, 65 % rel. Humid.)

Hydraulically and physically drying. As priming or pre-coat, material can be recoated after sufficient drying time, i.e. after one day, at the earliest. Allow glued insulation boards or ready reinforcement layers to cure sufficiently before further system build-up. Curing time depends on temperature and relative humidity. Experience has shown that a minimum drying time of 3 days is sufficient for curing. In the case of lower temperatures and/or higher atmospheric moisture, allow for longer drying time.

Gluing

Depending on where the insulation boards are used, the glue must be applied differently.

Surface preparation

The substrate must be clean, solid, dry, stable, load bearing, with good grip and free from any efflorescence, sintered layers and separating agents. On smooth substrates, e.g. pre-fabricated concrete structures, we recommend performing a test application in order to assess the adhesion.

Penetration of moisture through the wall (from inside or below) must be excluded. All necessary horizontal and vertical moisture barriers must be provided in accordance with DIN 18 195 "Water-proofing of buildings". Reinforcement and plaster layers as well as brickwork, etc. must have dried completely.

Check existing plaster for solidity and hollow areas, check existing coats for their bearing capacity. Remove non-bearing plasters and coatings completely.

Compatibility of any existing coats with the gluing mortar must be verified by an expert. Also refer to VOB Part C, DIN 18 363, Par. 3.

In the case of perimeter insulation in soil

On ETICS Plinth and Underground Insulation Boards 3537, apply 6 to 8 glue points per insulation board.

In the case of skirting insulation reaching into soil (approx. 30 cm)

Depending on the surface quality, using a 10 x 10 or 15 x 15 mm toothed trowel, apply the gluing mortar either across the whole surface or on part of the surface using the so-called edge-bead-point method. In the case of a straight termination of the insulation boards, it must be ensured that the system is sealed by the gluing mortar against moisture impact from below. To that end, the joint between the insulation board and the structure must be closed completely. If necessary fill in and smoothen gluing mortar between insulation board and wall.

Reinforcement

Reinforcement is only required in skirting areas and in soil transition area.

Mix ETICS Multiflex 3521 with cement and, using a stainless steel trowel, apply material on insulation boards. Ensure that a continuous layer (approx. 2 mm thick) is obtained on the whole surface. Place ETICS Glass Fibre Mesh 3797 in wet reinforcement layer, ensuring that no bubbles or folds are formed and that the fiber webs overlap by approx. 10 cm. Then, cover with a second layer of ETICS Multiflex 3521 (wet in moist). The whole layer thickness of the reinforcement should be approx. 3 mm. Before applying the surface reinforcement, all exterior corners and edges in the skirting area must be provided with vertical and flush corner reinforcement, reaching approx. 30 cm into the soil (soil transition area), using ETICS Fiber Corner Protection Rails 3763 or ETICS Aluminum Corner Protection Rails 3787, fully embedded in ETICS Multiflex 3521.

Depending on the system termination in the soil, particular measures must be taken for reinforcement.

In the case of an inclined system termination in the transition area, the reinforcement must be installed down to the existing building waterproofing.

In the case of a straight system termination in the soil-contact area or in the case of connection to perimeter insulation, the reinforcement ends approx.

3 to 5 cm before the edge of the insulation board.

For detailed information, refer to data sheet "ETICS Glass Fibre Mesh 3797" and the data sheets of the reinforcement masses.

Moisture protection coating

In transition area

If the reinforcement auf soil-contacted surfaces (applies to transition area only) is not performed using ETICS Multiflex 3521, an additional double top coat with ETICS Multiflex 3521 must be applied as a protection against moisture.

In the case of a straight system termination or connection to perimeter insulation, the moisture protection coating must be applied down to the edge of the insulation board.

If plaster coats reach down to the soil-contacted area, they must always be provided with a double protection coat using ETICS Multiflex 3521.

In skirting area

For better splash water protection, the reinforcement layer in the skirting area may also be provided with a single additional moisture protection coat using ETICS Multiflex 3521 before applying the proper system plaster primer.

Of course, this is not required if the reinforcement is made using ETICS Multiflex 3521.

Top coat

After the reinforcement layer has cured and dried sufficiently, the top coat can be applied using, depending on the selected Brillux ETICS, Rausan (organically bound plaster), silicone plaster, Silcosil (silicone reinforced plaster) or flat panels in combination with the corresponding system primer.

Tool cleaning

Immediately after use (with water)

Storage

Cool and frost-free. Close un-mixed opened containers tightly.

Declaration

Water pollution classification

WGK 1, according to VwVwS.

Product code

M-DF01.

Comply with the specifications in the current safety data sheet.

Note

Use of ETICS Multiflex 3521 as building seal according to DIN 18 195 has not been tested. The skirting area is the area of a facade exposed to splash water (starting from ground level, up to a height of at least 30 cm).

Also comply with the information given in the system data sheets 5v00 to 5v06 as well as the data sheets of the other products used.

To ensure an appropriate system build-up, comply with the information given in the general building inspection test certificate. This certificate must be available on site. For a copy, contact Brillux.

Remark

This Data Sheet was prepared taking into account the German laws, Standards, specifications and Codes of practice. All details were translated on the basis of the current German version. The contents do not form part of a legal contract. The user/purchaser is not released from the responsibility of checking that our products are suitable for the proposed use. In addition our general business conditions apply.

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