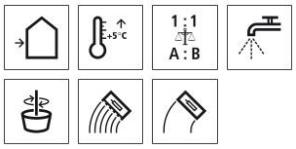
Technical Data Sheet
StoFlexyl

Organic filler for waterproofing and for protection from moisture

CE



Characteristics

Area of application

- exterior
- as a primer
- as a bonding mortar
- as a filler
- as a reinforcing compound
- as an undercoat
- for protection from moisture
- as an adhesive compound for bonding Sto-Plinth Insulation Boards in the plinth area and in the soil
- as a reinforcing compound in the splash zone and in the soil
- as a protective coating against moisture on finishing renders in the splash zone and in the soil
- not as masonry waterproofing
- not as waterproofing in accordance with DIN 18533

Properties

- provides protection against moisture in the plinth area and in the soil
- good adhesion on bitumen substrates
- highly versatile in use
- sufficiently weather-resistant for use in plinth areas
- crack extension: as reinforcement with mesh, approx. 2 %

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.1 - 1.3 g/cm³	
Water permeability rate w	EN 1062-1	< 0.05 kg/(m²h^{0,5})	
Water vapour diffusion-equivalent air layer thickness µ	EN ISO 7783	5,700	average value, V3 low
Reaction to fire (class)	EN 13501-1	C-s1, d0	Normal combustibility
Grain size	EN 1062-1	< 500 µm	S3 coarse

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	The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.
Substrate	
Requirements	The substrate must be firm, level, dry, load-bearing, and free from grease and dust. Damp or not fully cured substrates can lead to defects in the following coatings, e.g. bubble formation, cracks. For use as bonding mortar: max. unevenness of the substrate 1 cm/m.
Preparations	Check existing coatings for their suitability and load-bearing capacity. Remove any non load-bearing or structurally weak coatings. Clean the substrate if necessary.
Application	
Application temperature	Lowest temperature of substrate and air: +5 °C Highest temperature of substrate and air: +30 °C
Mixing ratio	1 : 1 parts by weight
Material preparation	Mix the product in the specified mixing ratio with StoFlexyl Cement, cement CEM I, cement CEM II A/LL, or cement CEM II B/LL with a paddle mixer until a homogeneous mass is produced. Add water to adjust to the required application consistency.
Consumption	Type of application — Approx. consumption waterproofing (dry layer thickness ≥ 3.0 mm) — 3.90 kg/m² reinforcement (dry layer thickness ≥ 2.0 mm) — 1.30 kg/m² moisture barrier (dry layer thickness ≥ 0.7 mm) — 0.50 kg/m² bonding — 2.00 kg/m² (consumption in kg/m²: specifications without cement) Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.
Application	manually, with a suitable tool (e.g. finishing trowel, notched trowel, block brush, etc.)

	Apply the product onto the primer (adhesion primer) with a minimum layer thickness of 3 mm. As bonding mortar: Apply the product onto the insulation boards with a 10 x 10 mm mm notched trowel. As waterproofing compound: Notes: - bonded proportion for spot/edge bonding: at least 40 % - First, apply a scratch coat to the wall structure. As a primer or a protective coating against moisture: Dilute the product with approx. 10 % water. Apply two coats of the material as slurry using a brush. As reinforcing compound: Apply the product onto the insulation boards with a rust-free steel trowel. Embed the Sto-Glass Fibre Mesh and smooth the surface.
Drying, curing, ready for next coat	Drying time depends on temperature, wind, and relative humidity. During unfavourable weather conditions, it is very important to apply suitable protective measures (e.g. protection against rain/solar protection) to any freshly completed facade surface or one to be treated. At +20 °C temperature (air and substrate) and 65 % relative humidity, the product is over-coatable after 24 hours at the earliest.
Cleaning the tools	Clean tools with water immediately after use.
Notes, recommendations, special information, miscellaneous	For further application instructions, see the application guidelines for the systems.
Delivery	
Colour shade	grey/white Raw compound: light grey with cement: cement-grey with StoFlexyl Cement: white
Packaging	pail
Storage	
Storage conditions	Store tightly sealed in frost-free conditions. Protect from heat and direct sunlight.

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Storage life	The quality of the product in its original container is guaranteed until the maximum storage life has expired. The storage life information is included in the batch number on the container. Explanation of batch no.: digit 1 = last digit of the year, digits 2 + 3 = calendar week Example: 1450013223 - storage life ends week 45in 2021

Certificates/approvals

test certificate No. 220011446-15-2	StoFlexyl mixed with StoFlexyl Cement Test of the depth of water penetration on the basis of EN 12390-8
test certificate No. 220011446-15-1	StoFlexyl mixed with Portland cement Test of the depth of water penetration on the basis of EN 12390-8

Identification

Product group	Filler

Composition

In accordance with the VdL directive (German Paint and Printing Ink Association) on coating materials for buildings
polymer dispersion
silicate extenders
mineral extenders
organic extenders
water
glycol ether
hydrophobic agents
Flow improver
thickener
anti-foaming agents
storage protection agent based on 1,2-benzisothiazol-3-one (BIT)
storage protection agent based on bronopol (INN)

Safety	Observe the Safety Data Sheet! Safety instructions refer to the ready-to-use, unapplied product.
EUH210	Safety data sheet available on request.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 5-chloro-2-methyl-2H-isothiazol-3-one. May produce an allergic reaction. These are preservatives.

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Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.
Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on the Internet.

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