



Sopro HE 449

Bonding emulsion



Synthetic resin dispersion used as bonding layer for mineral surface fillers and plasters/renders, and for modification of site-mixed mortar.

- For wet-on-wet application
- Serves as bonding layer
- For indoor and outdoor use

Use

As adhesion promoter/bonding layer prior to application of Sopro FS 15 550 floor-levelling compound, Sopro FAS 551 fibre-reinforced self-levelling filler, Sopro RS 462 repair filler, Sopro Repadur 405 rapid-set concrete repair mortar, Sopro RAM 3 454 renovation and levelling mortar, Sopro AMT 468 levelling mortar with trass, Sopro SP 466 lightweight levelling mortar, Sopro RAP 2 434 renovation and levelling render, Sopro DYX 700 cement paint, Sopro HPF 942 refractory plaster, and renders classed under mortar group P II (lime-cement) and P III (cement) to DIN 18 550.

For modification and enhancement of site-mixed mortar properties.

Compliance with technical data sheets for aforementioned products is essential.

Suitable substrates

Absorbent mineral substrates: concrete (min. 3 months old), natural and cast stonework, plaster-work/render and masonry incorporating standardized materials and technically approved products.

Smooth and non-absorbent substrates: existing tile and terrazzo coverings, firmly adhering lacquer/varnish coatings etc.

Mixing ratio

As bonding layer Water : Sopro HE 449		For spatterdash Water : Sopro HE 449	As modifier Water : Sopro HE 449	
High-suction	3 : 1	10 : 1	Medium duty Aggregate size > 4 mm	3 : 1
Absorbent	2 : 1		Heavy duty Aggregate size < 4 mm	2 : 1
Non-absorbent	Undiluted		Extra-heavy duty	1 : 1

Application temperature

Between +5°C and max. +30°C

Coverage

As bonding layer: 100–200 g/m² depending on nature of substrate

Shelf life

Approx. 24 months in original unopened containers; protect from frost

Packaging

10 kg canister, 5 kg canister, 1 kg bottle (Nr 12 in pack)

Properties

Sopro HE 449 is an easily workable polymer dispersion allowing efficient, wet-on-wet application.

Application

For application as bonding layer, mix Sopro HE 449 with water in specified proportions and brush generously onto substrate. Subsequent surface filler or mortar coating shall then be applied wet-on-wet. Where a Sopro self-levelling filler is to be subsequently applied, allow a short flash-off time for Sopro HE 449 after brushing on. Do not, however, allow complete evaporation or drying of priming coat. Apply filler while priming coat is still tacky (check using "finger test"). Waiting time may range between 5 and 30 minutes depending on site conditions (temperature, humidity, air movement and substrate suction).

As modifier and for preparation of spatterdash, Sopro HE 449 shall be added as admixture to mixing water.

Specified times

Apply for normal temperature range of +23°C and 50% relative humidity; higher temperatures shorten and lower temperatures lengthen these times.

Tools/tool cleaning

Lambswool roller, block brush; wash tools with water immediately after use.

Safety precautions

Not classified as dangerous under Regulation (EC) No 1272/2008 (CLP). All standard precautions for the handling of construction materials/chemicals shall be taken.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. **EUH208** Contains a mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one in proportions 3:1. May produce an allergic reaction. Avoid contact with skin. **EUH210** Safety data sheet available on request.

Precautionary statements: P102 Keep out of reach of children. **P332+P313** If skin irritation occurs: Get medical advice/attention.

German Water Hazard Class (WGK): WGK 1: slightly hazardous to water (self-assessment in accordance with VwVw5 – German Administrative Regulations on the Classification of Substances Hazardous to Waters into Water Hazard Classes – of 17.05.1999)

GISCODE (German hazardous substances classification): D1

Disposal**Waste treatment methods**

Recover if possible. In so doing, comply with the local and national regulations currently in force. 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Disposal of hardened product (EC waste code) : 08 04 10

Disposal of not hardened product (EC waste code) : 08 04 14

The suggested European waste code is just based on the composition of the product.

According to the specific process or application field a different waste code may be necessary.

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