Sopro HE 449 Bonding Emulsion

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

- for wet-on-wet application
- serves as bonding layer
- or indoor and outdoor use
- coverage 100 – 200 g/m² depending on nature of substrate

Field Of Application

As an 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 40 S 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.

Note: cmpliance with technical data sheets for the aforementioned products is essential.

Suitable Substrates

Absorbent mineral substrates: concrete (min. 3 months old), natural and cast stonework, plasterwork/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.

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 should 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 can be added as admixture to mixing water.

Yield as Bonding Layer

100 – 200 g/m² depending on nature of substrate

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Mix Ratio

As Bonding Layer

Water : Sopro HE 449

High-suction - 3 : 1

Absorbent - 2 : 1

Non-absorbent - Undiluted

For Spatterdash

Water : Sopro HE 449

10 : 1

As Modifier

Water : Sopro HE 449

Medium duty - 3 : 1

(Aggregate size > 4 mm)

Heavy duty - 2 : 1

(Aggregate size < 4 mm)

Extra-heavy duty - 1 : 1

Application Temperature

Between +5 °C and max. +30 °C.

Specified Times

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

Cleaning

Once dried, emulsion is difficult to remove, thus care should be taken to clean tools quickly before the primer dries.

Tools

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

Packaging

Canister: 10 kg & 5 kg.

Bottle: 1 kg (12 in a pack).

Storage

Protect against frost. In original, sealed containers, material can be stored for approx. 24 months.

Disposal Considerations

13.1. 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.

Safety

Not classified as dangerous under Regulation (EC) No 1272/2008 (CLP). All standard precautions for the handling of construction materials/chemicals must be taken. See Sopro Health & Safety Datasheet for more deatiled information.

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 VwVwS – 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

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