

Levelling mortar

Description



S&P Resin 230 levelling mortar is a solvent-free, thixotropic, grey 3-component epoxy-based mortar with an inert quartz sand filler component.

Application areas

S&P Resin 230 is used to level out uneven surfaces.

The material characteristics of the fresh and hardened adhesive are designed specifically to satisfy the special requirements of the S&P structural component reinforcement system.

Advantages

- thixotropic, enables application of thick layers
- hardens with minimal shrinkage
- solvent-free
- high mechanical strength
- stickiness-free hardening, even when there is high air humidity
- rapid strength developing
- convenient pot-life

Product Data

Type

Appearance / Colour

Comp. A - Epoxy resin solution, paste, light grey
Comp. B - Hardener for epoxy resin, viscous, black
Comp. F - Filler, powder, white

Delivery

Units of: 30 kg

Storage

Comp. A & B: when kept at + 10 °C to + 30 °C, at least 24 months
Comp. F (filler): can be stored indefinitely when kept dry

Technical Data

Density	approx. 1.7 kg/l	Comp. A
	approx. 1.7 kg/l	Comp. B
Bulk weight	approx. 1.45 kg/l	Comp. F
Density	approx. 1.9 kg/l	A + B + F mixed
Application temperature	+ 10 °C to + 35 °C	
Mixing ratio A : B : F	4 : 1 : 5	by weight

Mixing ratio A : B : F	4 : 1 : 6	by volume
Application time (pot life)	approx. 60 minutes	A + B + F mixed
Bending tensile strength	approx. 22 N/mm ²	1 day
	approx. 19 N/mm ²	2 days at + 10 °C
Compressive strength	approx. 34 N/mm ²	1 day at + 20 °C
	approx. 73 N/mm ²	7 days at + 20 °C
	approx. 19 N/mm ²	2 days at + 10 °C
	approx. 32 N/mm ²	3 days at + 10 °C
	approx. 56 N/mm ²	7 days at + 10 °C
	Adhesive tensile strength	> 2 N/mm ²

Consumption:	approx. 1.9 kg/m ² per mm layer thickness
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Substrate preparation Reinforcement may only take place if the substrate has an inherent tensile strength of at least 1.0 N/mm² for sheets, or 1.5 N/mm² for CFRP-laminates. The substrate must be free of substances that can impair adhesion (oil, grease, wax, etc.), and must also be dust-free, clean, more or less dry and solid. Absorbant and porous substrates have to be impregnated with S&P Resin 50.
Max. substrate humidity: 4 %

Treatment Stir the individual components separately and then add component A to component B and mix thoroughly until the colour is uniformly grey and free of any streaks. Place the mixed material in a different container in order to reveal any inadequacies in the mix. Mix slowly to minimise air inclusions. Add filling component F and mix slowly until the consistence of the mortar is homogeneous. The amount of added filler (comp F) can be varied in order to adjust the mortal consistency to fit different uses and requirements. Apply S&P Resin 230 using a spatula within the pot life until the required layer thickness is obtained.
Max. thickness per layer: 50 mm.
Substrate temperature must be at least 3° C above dewpoint temperature.

Cleaning of tools Mixture that has not yet hardened can be washed off with S&P Cleaner. Mixture that has hardened can only be removed by mechanical means.

Safety precautions Should some mixture come contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and additionally use an eye wash (available in pharmacies). Seek immediate medical advice.

Important Safety instructions For detailed safety information, we recommend all users to seek advice in the current safety data sheet on www.sp-reinforcement.eu.

Country-specific Data The information in this product data sheet is valid for products delivered by S&P Clever Reinforcement Company AG, Switzerland. Please note that the information in other countries may differ, and therefore use the local product data sheet for each respective country.

Specific indications

The information and data in this technical data sheet are made to ensure the normal intended use and normal application suitability; the information and data is based on our knowledge and experience. This does not absolve the user from their own responsibility to check the suitability and application method.

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