Construction

Sika® Repair EP

2-Component, epoxy repair mortar

Product Description

Sika® Repair EP is a thixotropic , 2-component repair mortar , based on a combination of epoxy resins with refined quartz fillers.

Uses

A repair mortar for a variety of applications :

- Repair mortar for concrete, cement mortar and stone
- Filling holes and damaged corners, edges and joint sides in concrete
- Rigid interpretation of broad, non -moving joints
- Filling and sealing of cracks (no movement)
- Excellent for manufacturing skirting, coving or sanitary baseboards for floor / wall connections

Characteristics / Advantages

Sika® Repair EP has the following advantages:

- Fast cure
- Suitable for dry and damp concrete surfaces
- Non-shrink curing
- Curing is not hindered by high humidity
- Excellent adhesion to concrete
- High mechanical resistance
- Resistant to impact and abrasion
- Thixotropic , non-sagging . Application vertical and overhead possible
- Different coloured components (for mixing control)

Product Data

Form

Appearance / Colour	Grey mortar
Packaging	5 kg tub

Storage

Storage Conditions / Shelf-Life	12 months from date of production if stored properly in undamaged original sealed packaging, in dry at temperatures of between + 5 ° C and + 30 ° C.

Technical Data

Chemical Base	Epoxy resin.
Density	2.0 kg/l (component A+B mixed)

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Solid Content	100%	
Mechanical / Physical Properties	20°C in laboratory conditions	
Compressive Strength	77 N/mm² (MPa)	(NBN EN12190)
Bending Tensile Strength	~38.7 N/mm^2	(NBN 12-208)
Tensile Strength	2.4 - 3.6 N/mm^2	
Bond Strength	Concrete Failure	

System Information

Consumption	2 kg/m²/mm of layer thickness
System Structures	Repair, coving, detailing and vertical applications : - Bonding bridge : Sikafloor®-156 - Mortar : Sika® Repair EP

Application Details

Substrate Quality	The substrate must be sound and of sufficient compressive strength (minimum 25 N / mm²), with a minimum bond strength of 1.5 N / mm². The surface should be clean, dry and free of dirt, oil, grease and other impurities. Concrete must be at least 4 weeks old.
Substrate Preparation / Priming	Concrete, mortar, stone, bricks: The substrate must be sound , dry, clean and free from dirt, ice, standing water, grease , oils, old surface treatments or coatings and all loose or friable particles must be removed to an open textured and fine adhesive surface to obtain, free of laitance and curing compound etc.

Application Conditions / Limitations

Substrate Temperature	+10°C min.; +30°C max.
Ambient Temperature	+10°C min.; +30°C max.
Material Temperature	+10°C min.; +30°C max.
Dewpoint	Beware of condensation! The ambient temperature during application must be at least 3 ° C higher than the dew point.

Application Instructions

Mixing Ratio	Component A : Component B = 97,12 : 2,88 (by weight)
Mixing	Dosed sets:  Recommended mixing paddle Mix parts A and B at least 3 minutes with a mixing paddle in a slow speed electric drill (max 400 rpm) until a smooth homogeneous material forms in a uniform grey colour. Only mix enough Sika® Repair EP that is workable within the processing time .

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Application Method / Tools	To the substrate surface, apply a bonding/priming layer of Sikafloor®-156, the fresh Sika Repair EP mortar should be applied to the still tacky primer . On ceilings, apply in successive layers of up to 10 mm. On vertical surfaces applied in layers up to 25 mm without formwork. Maximum horizontal layer thickness : 60mm.
Cleaning of Tools	Clean all tools and application equipment with Sika Thinner C immediately after use. Hardened material can only be mechanically removed.
Pot life at 20°C	Approx 90 minutes at +20°C. Pot life starts at the point the two components are mixed together. It will be shorter at higher temperatures and longer at low temperatures.

Curing Details

Waiting Time

Temperature	Drying	Fully Cured
+10°C	~36 Hours	~21 Days
+20°C	~12 Hours	~14 Days
+30°C	~6 Hours	~6 Days

Note: Times are approximate and will be affected by changing ambient conditions.

Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

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