BUILDING TRUST

PRODUCT DATA SHEET

Ronabond® EP 22S

Structural Epoxy Resin

DESCRIPTION

Ronabond® EP 22S is a low viscosity epoxy resin for use as a sand binder in flooring screeds or as a low viscosity crack injection resin. Ronabond® EP 22S is a high strength resin and is capable of restoring structural integrity.

USES

Ronabond® EP 22S may only be used by experienced professionals.

- High or low pressure grouting
- Resin binder in flooring screeds
- Bonding floor slabs and tiles

CHARACTERISTICS / ADVANTAGES

- Low viscosity
- May be applied on damp surfaces
- Excellent adhesion
- High strength

PRODUCT INFORMATION

Chemical Base	Epoxy Resin	
Packaging	10 kg (A+B)	Pre-batched unit
	Component A	6.67 kg pails
	Component B	3.33 kg pails
Appearance / Colour	Component A: Transparent Component B: Brownish Components A + B mixed: Yellowish-brownish	
Shelf Life	24 months from date of production	
Storage Conditions	Store in original, unopened, sealed and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight.	
Density	~ 1.10 kg/L (component A+B mixed) (at +23 °C)	
Viscosity	200 ~ 300 mPa·s (at +23°C)	

TECHNICAL INFORMATION

Compressive Strength	>80 N/mm² @ 7 days	
Tensile Strength	Approx. 20 N/mm² @ 7 days	
Elongation at Break	≥1.7 %	(GB 50728-2011)
Shrinkage	≤ 0.3%	(GB 50728-2011)
Tensile Adhesion Strength	>=2.5 N/mm² @ 7 days	

APPLICATION INFORMATION

Mixing Ratio	A : B = 2 : 1 (by weight)	
Substrate Temperature	+5°C ~ +30°C	
Substrate Moisture Content	Dry without clear water	
Pot Life	Temperature	Time
	+23°C	~30min

BASIS OF PRODUCT DATA

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.

ECOLOGY, HEALTH AND SAFETY

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 (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Substrates must be sound, clean, free from oil and grease, old coatings and surface treatments etc.
The outer substrates of concrete within 5 cm on both sides of the cracks shall be polished. Cracks must be cleaned to remove dust and water by using compressed air.

MIXING

Add component B to component A. Mix with an electric mixer at slow speed (max. 250 rpm) for at least 3 minutes. Avoid entraining air. Mix only that quantity which can be used within its pot life.

APPLICATION

Cracks in horizontal slabs:
Deadweight method : Chisel V-grooves at least 1 cm wide. The mixed Ronabond® EP 22S is injected into the cracks. The resin slowly penetrates into the cracks. The deadweight method is generally not suitable for the joints through the members, nor for the joints with very small width.
Pressure grouting method: Set grouting mouth every 30 ~ 50 cm. Seal all gaps. According to the actual situation, one or more exhaust ports should be set on the seam. Use single component grouting machine (such as aliva al-1200 or other manual grouting pump) and special syringe to inject the mixed resin into the joint. Grouting should be carried out one by one, and the grouting pressure should be maintained at 0.2 ~ 0.3 MPa. After grouting at each grouting port, the pressure shall be maintained for 5 ~ 10 minutes.
After the resin hardens completely, cut off the grouting nozzle and grind off the sealing material.
Cracks in vertical structures:
Generally, pressure grouting method is used to carry out grouting construction from bottom to top one by one.

CLEANING OF TOOLS

Clean all equipment immediately. Cured material can only be removed mech-anically.

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.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

SIKA HONGKONG LTD.
Rm.1507-12, Blk A, New Trade Plaza,
6 On Ping Street, Shatin, N.T., H.K.
Phone: +852 26868108
Fax: +852 26453671
Mail: marketing@hk.sika.com
Website: www.sika.com.hk