BUILDING TRUST

PRODUCT DATA SHEET

SikaGrout®-113 PK

Cementitious, Core Grout For Filling

DESCRIPTION

SikaGrout®-113 PK is a cementitious, free flowing, economical, general purpose, non-shrink precision grout with high ultimate strength, water tightening properties.

USES

SikaGrout®-113 PK is used for grouting in the following:
- Core grouting of wet areas like kitchen, bathroom, washing area, terrace.
- Base plates
- General concrete repairs

CHARACTERISTICS / ADVANTAGES

SikaGrout®-113 PK is easy to use grout requiring only the addition of water. It offers the following beneficial properties:
- Easy to mix
- Good flow characteristics
- Adjustable consistency
- High final strengths
- Non-corrosive and iron-free
- Water resistant

APPROVALS / STANDARDS

SikaGrout®-113 PK follows the CRD-C621-83-10.2 and ASTM C1107 as Type C.

PRODUCT INFORMATION

Chemical Base	Portland cement, selected fillers and aggregates, special additives
Packaging	5 kg bag
Appearance / Colour	Grey Powder
Shelf Life	6 months minimum from date of production
Storage Conditions	Store in original unopened packaging in cool and dry condition between 5°C and 35 °C. Protect from direct sunlight, heat and moisture.
Maximum Grain Size	Max 4 mm

TECHNICAL INFORMATION

Compressive Strength	≥ 25 MPa 1 day ≥ 35 MPa 3 days ≥ 45 MPa 7 days ≥ 55 MPa 28 days (ASTM 1107 / ASTM C109/70mm)	
Modulus of Elasticity in Compression	35,000 N/mm²	
Tensile Adhesion Strength	≥ 1.15 N/mm (concrete failure)	(BS 1881)

Coefficient of Thermal Expansion	~11x10^{-6} per ^{o}C

APPLICATION INFORMATION

Mixing Ratio	Consistency	Water per 5 kg bag	Water/Powder Ratio
	Dry pack/Trowel able	450ml	0.09
	Plastic Consistency (max strength)	500ml	0.10
	Flowable	550ml	0.11
	Highly Flowable (max. flow)	600ml	0.12
Yield	~ 2.5ltr / 5 kg bag, depending on water addition		
Layer Thickness	Min. 10 mm per pour Max.50 mm per pour		
Ambient Air Temperature	MIn. +5°C Max. +35°C		
Substrate Temperature	MIn. +5°C Max. +35°C		
Pot Life	~ 30 minutes		
Fresh mortar density	~2.3 kg/L		

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.

LIMITATIONS

- Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing.
- Where maximum thickness exceeds 75 mm, consider the use of Sikacrete®-114 PK.
- At high temperatures, use chilled water for mixing to keep grout mix temperature below 30°C.
- In hot weather, base plates and foundations must be shaded from direct sunlight.
- Temperature condition of bags should be < 30 °C prior to use.
- Use of aluminum tools & equipment is strongly not recommended.

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Embedded steel reinforcing should be free from scale, rust, oil and grease, and treated with a suitable anti-corrosion coating such as SikaTop® Armatec®- 110 EpoCem®.
The application of a suitable bonding agent such as Sikadur®-32 LPor SikaTop® Armatec®-110 EpoCem® will improve adhesion on large areas or where particularly dense concrete substrates are involved.

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surfaces should be clean, sound, rough and free from oil, grease, cement laitance and all loosely adhering particles.
Absorbent surfaces should be saturated thoroughly with clean water. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease.

MIXING

Add water according to the desired consistency into a clean mixing vessel before slowly adding the SikaGrout®-113 PK powder. SikaGrout®-113 PK is best mixed in a forced action mixer, for 2 to 3 minutes or until the mix is free of lumps, not longer than 5 minutes. Slow speed SS paddle mixer (maximum500 rpm) should be used for mixing (aluminum paddle is strongly not recommended). Normal tumble type concrete mixers are not suitable. Do not mix more grout than can be placed within 15 to 20 minutes. Do not add extra water or other ingredients. Mix only full bags for best results.

APPLICATION

Before pouring let the mixed grout stand for approximately 5 minutes after mixing to allow entrapped air to escape. Pour into the prepared area such that the grout has the shortest distance to travel. Ensure that air displaced by the grout is allowed to escape. When carrying out base plate grouting, ensure a sufficient head of pressure is maintained to keep the mortar flowing. All exposed areas of the mortar surface should be kept as small as possible.

CURING TREATMENT

Treat exposed surfaces with Antisol®-WB curing compounds or use other approved curing methods such as polyethylene sheeting or wet hessian. Do not commence fogging until final set has been reached.

CLEANING OF TOOLS

Clean equipment and mixer immediately after application with water. Hardened material can only be removed mechanically.

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.

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