BUILDING TRUST

PRODUCT DATA SHEET

SikaGrout®-275 PK

Cementitious, High Strength, Shrinkage Compensated, Precision Grout

DESCRIPTION

SikaGrout®-275 PK is a cementitious, pre-bagged, free flowing, one component, non-shrink precision grout with high early and ultimate strength. Suitable for use in hot and tropical climatic conditions.

USES

SikaGrout®-275 PK precision grout is used for grouting various applications such as:
- Machine foundations
- Coloumns in precast costruction
- Concrete anchors
- Cavities, gaps and recesses
- Base plates
- Bridge bearing
- Structural concrete repairs

CHARACTERISTICS / ADVANTAGES

SikaGrout®-275 PK is an easy to use precision grout re-quiring only the addition of water. It offers the follow-ing beneficial properties:
- Easy to mix
- Very good flow characteristics
- Adjustable consistency
- Moderate heat of hydration
- Shrinkage compensated
- High final strength
- Non-flammable
- Non-corrosive

APPROVALS / STANDARDS

SikaGrout®-275 PK complies with CRD-C621-83-10.2 and ASTM C1107 as Type C.

PRODUCT INFORMATION

Chemical Base	Portland cement, selected fillers and aggregates, special additives.
Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf Life	6 months minimum from date of production
Storage Conditions	Store in original unopened packaging in a cool and dry condition between 5°C and 35°C. Protect from direct sunlight, heat and condensation.
Maximum Grain Size	Max. ~ 4 mm

TECHNICAL INFORMATION

Compressive Strength	≥ 40 MPa 1 day ≥ 50 MPa 3 days ≥ 60 MPa 7 days ≥ 75 MPa 28 days (ASTM 1107 / ASTM C109/70mm)

APPLICATION INFORMATION

Mixing Ratio

At 25 °C

Consistency	L water per 25 kg bag	W/P Ratio
Plastic Consistency	2.75	0.11
Flowable	3.00	0.12

Yield	~12 L / 25 kg bag
Layer Thickness	Min. 10 mm per pour Max. 50 mm per pour
Ambient Air Temperature	+5 °C min. / +35 °C max.
Substrate Temperature	+5 °C min. / +35 °C max.
Pot Life	~30 min (25 °C)
Fresh mortar density	~2.35 kg/l (25 °C)

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. When maximum thickness exceeds 100 mm, consider the use of Sikacrete® -114. At high temperatures, use chilled water for mixing to keep the grout temperatures below 30 °C. In hot weather, base plates and foundations must be shaded from direct sunlight. Condition bags < 30 °C prior to use. Depending on requirements and site condition, the ad-dition of dry, single size, clean coarse aggregates is possible up to 100 % by weight of the dry grout powder. Trials are recommended to confirm suitabil- ity of aggregates to be employed. Use of aluminum tools & equipments is strongly not recommended.For additional information on SikaGrout®-275 PK or other grouting materials contact Sika Technical Department.

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

SURFACE PREPARATION

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 Epo-Cem®. The application of a suitable bonding agent, such as Sikadur®-32 LP or 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, rough, sound 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®-275 PK powder. SikaGrout®-275 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 (maximum 500 rpm) should be used formixing(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 the best result.

APPLICATION

Before pouring let the mixed grout stand for approx-imately 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 the base plate grouting, ensure a suffi-cient head of pressure 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 com-pound or use other approved curing methods such as polyethylene sheeting or wet hessian. Do not com-mence 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.

Sika Pakistan (Pvt.) Limited
141-CCA Phase IV, DHA
Lahore Punjab 54792
Pakistan
phone: +92 42 3569 4266 - 67
fax: +92 42 3569 4268
http://pak.sika.com/