

PRODUCT DATA SHEET

SikaGrout®-217

High Performance, Shrinkage Compensated Grout

DESCRIPTION

SikaGrout®-217 is a ready to use cementitious mortar. After mixing with water, it yields a grey fluid mortar

USES

- Grouting of turbines,
- Grouting of beams or bedding for bridges' bearing devices
- Assembly of prefabricated elements in metal, reinforced concrete or prestressed concrete
- Precision grouting of industrial equipment subject to chocks and vibrations
- Anchoring of rails
- Anchoring of rebars in horizontal elements

CHARACTERISTICS / ADVANTAGES

- SikaGrout® 217 does not contain metallic aggregates nor chloride. It does not corrode in presence of humidity, but rather protects steel rebars from corrosion thanks to its alkaline pH.
- It has high flexural and compressive strengths, even early strength, which allows for quick machines commissioning
- SikaGrout® 217 is shrinkage-compensated. A controlled expansion system is triggered to compensate the effect of first and second shrinkage
- It has excellent adhesion on concrete, mortar and steel. It ensures a monolithic link and resists perfectly to shocks and vibrations
- It is not altered by important vibrations, humidity or temperature; it resists to water and oil.

PRODUCT INFORMATION

Composition	Hydraulic binders, aggregates, additives and admixtures
Packaging	25 KG
Shelf life	12 months in original unopened packaging
Storage conditions	Store properly in original unopened, sealed and undamaged packaging. Keep away from direct sunlight.
Appearance / Colour	Grey Powder
Maximum grain size	2.36 mm
Density	Fresh mortar : ~ 2.00 kg/litre
Compressive strength	1 Day - 25 Mpa 7 Days - 45 Mpa 28 Days - 55 Mpa
Consumption	A 25 kg bag of SikaGrout®-217 mixed with 3.25 - 3.50 liters of water yields about 14 liter of fresh mortar.
Layer thickness	Minimum 10 mm/ maximum 200 mm
Ambient air temperature	The ambient temperature shall be between + 5 °C and + 35 °C.

Mixing ratio 3.25 L - 3.50 L of water per 25 Kg bag

Pot Life 30 Minutes

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

Similar to cementitious mortars. Avoid contact with eyes and skin. Do not inhale powder.

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 / PRE-TREATMENT

The substrate must be sound, cohesive and free from any loose parts that compromise the monolithism. The concrete or mortar substrate shall be saturated with water prior to the application of SikaGrout®-217

MIXING

Put the necessary water into the mix container and gradually add SikaGrout®-217 while stirring in order to avoid lump formation. Continue stirring until a homogeneous mix is obtained (2 to 3 minutes). The mixing can be done in an open container using an electric or pneumatic stirrer working at low speed (around 300 rpm)

APPLICATION

Application is done by pouring, pumping or injection. Adding Aggregates in cases where there are important thicknesses to fill, it is possible to form a grouting micro-concrete having good fluidity and good strength at 28 days. This is done by adding aggregates with grains sizes 3/8

mm at a ratio of 12.5 kg per 25 kg bags of SikaGrout®-217. Use 3.25 - 3.5 liter of mixing water.

Waiting time before commissioning: The waiting time before commissioning depends on the required mechanical strength. It is generally ~ 24 hours at a temperature of 20 °C.

CURING TREATMENT

After SikaGrout® 217's placement, it shall be protected against wind and sun exposure during its hardening.

CLEANING OF EQUIPMENT

Clean all equipment and tools with water immediately after use. Dry hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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.

Sika Kenya Limited
Mudher Industrial Complex, Mombasa
Road
P.O Box 38645 - 00623 Nairobi, Kenya
Mobile: +254 711 140234 / +254 786
140234
Web: ken.sika.com

Product Data Sheet
SikaGrout®-217
January 2024, Version 01.04
020201010010000013

