

SikaGrout®-114 AE

Cementitious, Shrinkage Compensated General Purpose Grout

Product Description SikaGrout®-114 AE is a cementitious, free flowing, economical, non-shrink precision grout with high ultimate strength.
Suitable for use in tropical and hot climatic conditions.

Uses SikaGrout®-114 AE is used for grouting in the following:

- Machine foundations
- Columns in pre-cast construction
- Concrete anchors, cavities, gaps and recesses
- Base plates
- General concrete repairs

Advantages SikaGrout®-114 AE is an economical and easy to use grout requiring only the addition of water. It offers the following beneficial properties:

- Easy to mix
- Good flow characteristics
- Dual expansion system
- Adjustable consistency
- High final strengths
- Non corrosive and iron free

Standards Under processing

Product Data

Type	Mixture of Portland cement and graded aggregates
Form	Grey Powder
Packaging	25 kg bag
Storage Condition	Store in a dry area between 5°C and 35°C. Protect from direct sunlight
Shelf life	12 months minimum from production date if stored properly in original unopened packaging

Technical Data

Mixing ratio	Consistency	Water per 25 kg bag
	Dry-pack / Trowellable	2.50 – 2.75 lt.
	Plastic consistency	2.75 - 3.00 lt.
	Flowable (max. strength)	3.00 – 3.25 lt.
	Highly flowable (max. flow)	3.25 – 3.75 lt.

Construction



Pot Life (25°C)	> 4 hours			
Density (25°C)	Approximately 2200 kg/m ³ (fresh mortar)			
Compressive Strength, w/p = 0.13 At 25°C	1 day ~ 30 N/mm ²	3 days ~ 50 N/mm ²	28 days ~ 70 N/mm ²	(ASTM C109)
Thickness	Minimum gap = 10 mm, Maximum = 75 mm per pour			
Yield	12.5 - 13.0 litres per 25 kg bag, depending on water addition			

Application Details

Substrate preparation	Concrete surfaces should be clean, sound and free from oil, grease, cement laitance and all loosely adhering particles. Absorbent surfaces should be saturated thoroughly. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease.
Mixing	Mix mechanically with a slow speed drill (max. 500 rpm) for at least 3 minutes and until a smooth, even consistency is achieved. Add water according to the desired consistency. For a flowable mix, 3.75 - 4.00 lt. per 25 kg bag will be required.
Application	Before pouring, however, 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	Treat exposed surfaces with Antisol-E Curing Compound or use other approved curing methods such as polyethylene sheeting or wet hessian.
Cleaning	Clean equipment and mixer immediately after application with water. Hardened material can only be removed mechanically.
Remarks	<p>Use SikaGrout for grouting only.</p> <ul style="list-style-type: none"> -Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing. -Where maximum thickness exceeds 75mm, consider the use of Sikacrete-114 AE. -At high temperatures, use chilled water for mixing to keep the grout temperature below 30°C. -In hot weather, base plates and foundations must be shaded from direct sunlight. -Condition bags of grout (temperature below 30°C)prior to use -Depending on requirements and site condition, the addition of up to 100% of, dry, single size and clean aggregates is possible. Trials are recommended to confirm suitability of aggregates to be employed. <p>For additional information on SikaGrout®-114 AE or other grouting materials contact our Technical Services Department.</p>



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 should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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 Gulf B.S.C (c)
Bldg. 925, Road 115, Sitra Area 601
P.O. Box 15776
Adliya, Kingdom of Bahrain
Tel: ++973 17738 188
Fax : ++973 17732 476
E-mail: sika.gulf@bh.sika.com
Web : <http://www.sika.com.bh>