

PRODUCT DATA SHEET

SikaGrout®-214 IQ

CEMENTITIOUS, HIGH EARLY STRENGTH, DUAL SHRINKAGE COMPENSATED PRECISION GROUT

DESCRIPTION

SikaGrout®-214 IQ is a Cementitious, High early strength, Dual shrinkage compensated precision grout. Suitable for use in hot and tropical climatic conditions.

USES

- Machine foundations
- Columns in precast construction
- Concrete anchors
- Bridge bearings
- Cavities
- Gaps
- Recesses
- Rail beds

FEATURES

- Easy to mix
- High early strength
- Good flow characteristics
- Dual expansion system
- Adjustable consistency
- High final strengths
- Formulated to not segregate or bleed.
- Pourable or pumpable.

PRODUCT INFORMATION

Composition	Cement, selected aggregates and special additives.
Packaging	25 kg bags
Appearance and colour	Grey powder
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	In dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight, heat and moisture.
Maximum grain size	Dmax: 3 mm

TECHNICAL INFORMATION

Compressive strength	1 day	28 days	EN 13892
	~37 MPa	~80 MPa	
	Equivalent to C65 concrete class		EN 206-1
Flexural-strength	1 day	28 days	EN 13892
	~8 MPa	~14 MPa	
Expansion	~ 1.2% (Fresh Expansion)		

APPLICATION INFORMATION

Mixing ratio	2.8–3.2 litres water per 25 kg bag
Consumption	As a guide, ~22 kg of powder per 10 mm thickness for each m2
Yield	~12.6 L / 25 kg bag, depending on water addition
Layer thickness	Min. 10 mm per pour Max. 100 mm per pour
Ambient air temperature	+5 °C min. / +40 °C max.
Substrate temperature	+5 °C min. / +35 °C max.
Fresh mortar density	~2.28 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.

IMPORTANT CONSIDERATIONS

- Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing.
- Where maximum thickness exceeds 100 mm, Please contact Sika Technical Services for advice.
- At high temperatures, use chilled water for mixing to keep grout mix temperature below 35 °C.
- In hot weather, base plates and foundations must be shaded from direct sunlight. Condition bags of grout < 35 °C prior to use.

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

Concrete:

The concrete shall be thoroughly clean, rough, free from dust, oil, greas, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by repair materials. De-laminated, weak, damaged and deteriorated concrete and where

necessary sound concrete shall be removed by suitable means. Absorbent surfaces should be saturated thoroughly with clean water.

The application of a suitable bonding agent, such as SikaLatex®-IQ or Sikadur®-32 LP or SikaTop® Armatec®-110 EpoCem®, will improve adhesion on large areas or where particularly dense concrete substrates are involved.

Steel Reinforcement:

Rust, scale, mortar, concrete, dust and other loose and deleterious material which reduces bond or contributes to corrosion shall be removed. Surfaces shall be prepared using abrasive blast cleaning techniques or high pressure water-blasting.

Embedded steel reinforcing should be treated with a suitable anticorrosion coating. Please contact Sika Technical Services for advice.

Reference shall be made to EN1504-10 for specific requirements.

MIXING

Add water according to the desired consistency into a clean mixing vessel before slowly adding the SikaGrout®-214 IQ powder. SikaGrout®-214 IQ 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 drill (maximum 500 rpm) can be also used for mixing. Normal tumble type concrete mixers are not suitable. Do not add extra water or other ingredients. Mix only full bags and use double paddle mixer for best results.

APPLICATION

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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

Protect the fresh material from premature drying using Sika® Antisol® WB IQ curing compounds or use other approved curing methods .

CLEANING OF EQUIPMENT

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

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.

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