

PRODUCT DATA SHEET

SikaGrout[®]-212 IQ

CEMENTITIOUS, NON SHRINKAGE , GENERAL PURPOSE GROUT

DESCRIPTION

SikaGrout[®]-212 IQ is a cementitious, free flowing, general purpose, non-shrink precision grout , with high ultimate strength .

Suitable for use in hot and tropical climatic conditions.

USES

SikaGrout[®]-212 IQ 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
- Bridge bearings pads
- Filling of connections in pre-cast construction

FEATURES

SikaGrout[®]-212 IQ 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

PRODUCT INFORMATION

Composition	Portland cement, selected fillers and aggregates, special additives
Packaging	25 kg bag
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.

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TECHNICAL INFORMATION

Compressive strength	W/P ratio = 0.14 (3.5 L water / 25 kg)		
	1 day ~25 MPa	28 days ~55 MPa	(ASTM C109)
*Testing cubes 50 x 50 x 50 mm			

APPLICATION INFORMATION

Mixing ratio	Consistency Plastic-Flowable	Water per 25 kg bag 3.25 – 3.75 L	Water/Powder ratio 0.13 – 0.15
Fresh mortar density	~2.25 kg/l (25 °C)		
Consumption	As a guide, ~22 kg of powder per 10 mm thickness for each m ²		
Yield	~12.3 L / 25 kg bag, depending on water addition		
Layer thickness	Min. 10 mm per pour Max. 75 mm per pour		
Ambient air temperature	+5 °C min. / +35 °C max.		
Substrate temperature	+5 °C min. / +35 °C max.		
Pot Life	~40 minutes at 20 °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 75 mm, consider the use of Sikacrete®-114 .
- 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. Condition bags of grout < 30 °C prior to use.
- Depending on requirements and site condition, the addition of single size, clean coarse aggregates is possible up to 100 % by weight of the dry grout powder. Trials are recommended to confirm suitability of aggregates to be employed.
- For additional information on SikaGrout®-212 IQ 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

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 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 such as SikaTop® Armatec®-110 EpoCem®.

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®-212 IQ powder. SikaGrout®-212 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 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

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

Do not commence fogging until final set has been reached.

CLEANING OF EQUIPMENT

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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.

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