

PRODUCT DATA SHEET

SikaGrout®-214

GENERAL PURPOSE SHRINKAGE COMPENSATED CEMENTITIOUS GROUT

DESCRIPTION

SikaGrout®-214 is a cement based, 1-component, ready to mix, free flowing expansion compensated low shrinkage general purpose grout.

USES

SikaGrout®-214 is used as free flowing pouring mortar suitable for grouting:

- Heavy equipment / machine bases
- Base plates
- Filling cavities, gaps and recesses
- Anchoring bars

CHARACTERISTICS / ADVANTAGES

- High final strengths
- Shrinkage compensated
- Fluid consistency
- No segregation or bleeding, allowing good adherence and load transfer
- Easy to use (ready to mix powder)
- Fast strength development
- Non-corrosive. It does not contain metallic elements or chlorides

PRODUCT INFORMATION

Composition	Cement, selected fillers and aggregates, special additives
Packaging	25 kg bags
Appearance / Colour	Grey powder
Shelf life	6 months from date of production
Storage conditions	Store properly in dry conditions in undamaged and unopened original sealed packaging

TECHNICAL INFORMATION

Compressive Strength	3 day	28 days	(KS F 4044) with 17% water
	~ 40 MPa	~ 60 MPa	

Expansion	~0.01%	(KS F 4044)
Bleeding	0 %	(KS F 4044)

APPLICATION INFORMATION

Mixing Ratio	4.0 to 4.5 litres per 25 kg bag 16% to 18% litres water by weight of powder	
Yield	1 bag yields approximately 13 litres of mortar	
Layer Thickness	Maximum 100 mm	
Flowability	~ 300 mm, with 17% water	(KS F 4044)
Ambient Air Temperature	+ 5°C minimum/ +30 °C maximum	
Substrate Temperature	+5 °C minimum/ +30 °C maximum	

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete shall be thoroughly clean, free from dust, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by the grout. Delaminated, weak, damaged and deteriorated concrete and where necessary sound concrete shall be removed by suitable means. Concrete surface shall be continuously saturated with clean water for at least 2 hours before grouting. Install appropriate formwork.

MIXING

SikaGrout®-214 can be mixed with a low speed (< 500 rpm) hand drill mixer to avoid entraining too much air. Mix only full bags for best results. Pour the recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes adding additional water within the mixing time if necessary to the maximum specified amount to adjust the grout to the required consistency.

APPLICATION

Remove excess water from substrate surface e.g. with clean sponge, until surface is dark matt in appearance without glistening (saturate surface dry). Surface pores and pits shall not contain water. Let the grout stand for ~5 minutes to release air entrained by mixing. Pour grout into the prepared openings using a sufficient pressure head to maintain a continuous flow of grout. Make sure that enough material quantity is mixed. Ensure air displaced by the mortar can easily escape.

CURING TREATMENT

Keep visible exposed grout surfaces to a minimum. Protect the fresh material from premature drying using appropriate curing method e.g. curing compound, moist textile membrane, polythene sheet, etc.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- Not to be used for open repair works or overlay in unconfined spaces
- Refer to the Method Statement for Cementitious Grouts for more information regarding substrate preparation
- Avoid application in direct sun and/or strong wind
- Do not add water under or over recommended dosage
- Apply only to sound, prepared substrate
- Do not add additional water during the surface finishing as this may cause discoloration and cracking
- Protect freshly applied material from freezing and frost
- Keep exposed surfaces to a minimum

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.

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.

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.

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 Korea Ltd.

135 gil 16, Nonhyun-ro
Gangnam-ku, Seoul, Korea
Tel : +82 2 6912 1500
Fax: +82 2 6912 1555
web: <http://kor.sika.com>



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