BUILDING TRUST

PRODUCT DATA SHEET

Sika® Intraplast® CFG

CABLE GROUT ADMIXTURE

DESCRIPTION

Sika® Intraplast® CFG is a cable grout admixture in powder form. It introduces micro bubbles into the mix thereby promoting wet volume expansion and improves flow of the mixed grout without segregation. Suitable for use in tropical and hot climatic conditions.

USES

Sika® Intraplast® CFG is used to increase the cohesion in cementitious grouts (addition of sand is possible).
Sika® Intraplast® CFG can be used for grouting of:
- Post tensioning cables
- Pre-stressed cable ducts
- Rock and concrete anchor bolts

CHARACTERISTICS / ADVANTAGES

Sika® Intraplast® CFG has the following characteristics:
- Improved flow
- Increased cohesion
- Nitrogen gas system
- Volume expansion in wet state
- Slight retardation to extend open time

APPROVALS / CERTIFICATES

Follows the requirements of ASTM C 938, ASTM C 940 and BS EN 445.

PRODUCT INFORMATION

Composition	Blend of organic and inorganic chemicals	
Packaging	5 and 10 kg bags	
Appearance / Colour	Light grey powder	
Shelf life	12 months	
Storage conditions	Store in cool and dry conditions in unopened, undamaged and sealed original packaging at temperatures between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.	
Density	~2.06 kg/l (20 °C, w/p =0.34) (fresh mixed grout)	
Bulk Density	~0.66 kg/l (20 °C)	
Total Chloride Ion Content	Nil	(EN 934)

TECHNICAL INFORMATION

Indicative Performance of Mortar Mix **using OPC**

Compressive strength (4 % Intraplast CFG bwoc) (ASTM C109)

w/p ratio	strength 1 day	strength 3 days	strength 28 days
0.34	≥ 35 N/mm²	≥ 50 N/mm²	≥ 70 N/mm²
0.35	≥ 30 N/mm²	≥ 44 N/mm²	≥ 68 N/mm²
0.36	≥ 27 N/mm²	≥ 35 N/mm²	≥ 60 N/mm²

Flow (4 % Intraplast CFG bwoc) (BS EN 445)

w/p ratio	flow-cone test	
0.34	~24 s (initial)	~29 s (0.5 h)
0.35	~22 s (initial)	~27 s (0.5 h)
0.36	~19 s (initial)	~24 s (0.5 h)

Expansion (w/p = 0.34) (4 % Intraplast CFG bwoc)
~0.12% (ASTM C940)

Bleeding (w/p = 0.34) (4 % Intraplast CFG bwoc)
Nil (ASTM C940)

Trial mixes must be performed to establish the exact dosage rate required.

APPLICATION INFORMATION

Recommended Dosage	4 - 5 % of Sika® Intraplast® CFG by weight of cement w/p ratio = 0.34-0.36
Ambient Air Temperature	+5 °C min. / +40 °C max.
Substrate Temperature	+5 °C min. / +40 °C max.

APPLICATION INSTRUCTIONS

MIXING

The most effective mixing sequence for lump free, homogeneous grout has proven to be a batching sequence of: water, cement and finally the admixture.

IMPORTANT CONSIDERATIONS

In hot summer temperatures extra precautions are recommended:
- Condition materials at room temperature before use
- Use chilled water for mixing
- Saturate ducts with chilled water prior to grouting
- Pump grout immediately after duct saturation
- Trial mixes must be performed to establish the exact dosage rate required.

Cements containing fly ash are not suitable for use with Sika® Intraplast® CFG

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.

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