

Intraplast® -Z

Expanding Grout Admixture

Product Description	An expanding grout admixtures which introduce micro bubbles into the cement mix. Wet volume expansion and increased fluidity, without segregation, are the enhanced performance characteristics when using Intraplast® -Z.
Uses	Intraplast® -Z is used to increase cohesion in cement grouts (addition of sand is possible). Intraplast® -Z develop hydrogen gas. In general Intraplast® -Z can be used for grouting of: ■ Pre-stressed cable ducts. ■ Rock and soil anchoring. ■ Bearing plates. ■ Pre-placed aggregates grouting. ■ Tunnel linings.
Advantages	Intraplast® -Z provide the following beneficial properties: ■ Increased frost resistance. ■ Improved fluidity. ■ Increased cohesion. ■ Volume expansion in the wet state. ■ Slight retardation of set (Intracrete only).
Approvals / Standards	■ Intraplast® -Z has been tested as per SCAQMD Rule 1168' Result VOC Content 0 g/L
Technical Data	
Colour	Grey
Density	1.0 ± 0.1 kg/l
Storage Conditions	Dry
Shelf Life	12 months
Packaging	160 x 1 kg or 20 x 1 kg
Application	
Dosage	2% by weight of cement. (1 kg sachet per 50 kg cement).
Dispensing	Add directly to the cement mix water, in the mixer. Sand may be added as required.
Important Recommendations	For pre-stressed concrete work, where mechanical batching is carried out, a mixing time of 4 minutes with a W/C ratio of 0.36 - 0.40 has been found to give the best results. The most effective mixing sequence has proven to be; water, cement and finally the admixture. Cements containing fly ash are unsuitable.



Typical Results

	Control	Sample 1	Sample 2
<i>Mix Design</i>	1	1	1
<i>Cement</i>	0.50	0.45	0.45
<i>Water</i>	-	500 gm	1000 gm
Intraplast® Z per 50 kg OPC			
<i>Flow Test – JA Cone 3 mins after mixing (3 mins ± 0.3 sec)</i>	3.09 Sec.	3.18 Sec.	3.31 Sec.
<i>Density (kg/m³)</i>	1.840	1.850	1.885
<i>Air Content (%)</i>	8.2	5.8	6.4
<i>Expansion (%)</i>			
3 days	-	-	0.470
7 days	-	-	0.738
<i>Compressive Strength (N/mm²)</i>			
1 day	13.4	11.8	13.7
7 days	26.0	29.2	30.6
28 days	41.7	43.2	47.5

Safety Instructions

Ecology Do not dispose of into water or soil but according to local regulations.

Transport Non-hazardous.

Safety Precautions Contact with eyes, skin may cause irritation. Wear gloves and goggles.

Toxicity Non-Toxic under relevant health and safety codes.

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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