Intraplast® -Z

Expanding Grout Admixture

Product	An expanding grout admixtures which introduce micro bubbles into the cement mix.		
	Wet volume expansion and increased fluidity, without segregation, are the		
Description	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	For pre-stressed concrete work, where mechanical batching is carried out, a mixing		
Recommendations	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.		



Construction

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		Control	Sample 1	Sample 2
Mix Design Cement		1	1	1
Water		0.50	0.45	0.45
Intraplast® Z per 50 kg OPC		-	500 gm	1000 gm
Flow Test – JA Cone 3 mins after mixing (3 mins ± 0.3 sec)		3.09 Sec.	3.18 Sec.	3.31 Sec.
Density (kg/m³)		1.840	1,850	1.885
Air Content (%)		8.2	5.8	6.4
, ,	lays	-	-	0.470
7	days	-	-	0.738
Compressive Strength (N/m	m2) 1	12.4		
_	day	13.4 26.0	11.8	13.7
/	days days	20.0	29.2	30.6
28	3 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

Typical Results

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