Q-MAX

Laboratory Test Report

Test no: QGL88-202001-003
Date: 24 Jan 2020
Sample Received: 19 Dec 2019

Product : TS168G Duct Grout Mat.
Batch no: DGM1687.12.2019.3
Sample type: Random sample

QGL88-202001-004

Test Results

Sl.	Tests Description	Standard of Test Procedure	Manufacture's Test Results	Post Tensioning Institute (PTI) Spec. Limits
1.	**Setting Time**	ASTM C953	Initial setting: 6 hours and final setting: 9 hours at 25°C	The setting time should be more than 3 but less than 12 hours
2.	**Grout Strength**	ASTM C942	31 Mpa at 7 days and 45 Mpa at 28 days	The strength should be 21 Mpa at 7 days and 35 Mpa at 28 Days
3.	**Permeability**	ASTM C1202	1250 coulombs after 6 hours subject to a potential of 3 volts	A value less than 2500 coulombs after 6 hours is generally accepted when subjected to a potential of 3 Volts
4.	**Volume Change**	ASTM C1090	0.05% at 24 hours and 0.2% at 28 days	A value of 0.0 % to less than +0.1% at 24 hours and no more than +0.32 % at 28 days is acceptable
5.	**Fluidity (Efflux Time)**	ASTM C939	18 sec	The Efflux time should be between 5 and 30 sec immediately after mixing
6.	**Bleed Characteristics**	ASTM C940	0.0% after 24 hours	A bleed of 0.0% after 3 hours
7.	**Corrosion level**		No corrosion occurs after grouting	
8.	**Wet Density**		1897 kg/m3	Compared to Manufacturer
9.	**Segregation of material after mixing**		No segregation is observed after mixing till to setting time.	
10.	**Chloride Ion Content of cement grout mix.**		Chloride ion content is 0.03%	Max Chloride content 0.08%

Remarks:

Affirmation:

Jeonghang-myung
Lab Supervisor

Seongho Yi
Head of QC

Q-MAX 랩 테스트
테스트 및 승인
Q-MAX 국제 공인 기관

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Q-Max Co. Ltd.
Laboratory ID: KR02
6th Lot, 9th Block, Anseong 3rd District Industrial Complex, 222-5 Shin-neung ri, Seo-un Myun, Anseong City, Gyeong-gi do

Q-Max Global Co. (BD) Ltd.
House# 1/E/2, Ground floor, Adarsha Chayaneer, Ring Road, Shyamoli, Dhaka 1207, Bangladesh
Tel: 00880248110667
info@qmaxbd.com, www.qmaxbd.com

ilac
KOLAS
국제 공인 기관
(인식 번호 : KT133호)
ISO 17025 ACCREDITED LABORATORY