



(This Report is issued subject to the terms & conditions set out below)

Setsco Services Pte Ltd

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Business Reg. No. 196900269D Date: 29/01/2021

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Your Ref: P785834

Dated 26/10/2020

Our Ref: CT-8500129331/SS/1

Subject

: Testing of "RLA Fire Pro FR Grey" water based fire rated acrylic sealant submitted by

RLA Polymers Pty Ltd on 20/10/2020.

Tested For

: RLA POLYMERS PTY LTD

363 Wentworth Avenue Pende Hill NSW 2145

Australia 2145

Attn: Ms. Veera Elangovan

Method of Test

: 1) Adhesion/Cohesion under Cyclic

: ASTM C 719 : 2014

Movement

2) Adhesion in Peel

: ASTM C 794 : 15

3) Sealant exposed to continuous

immersion in water.

: ASTM C 719 : 2014

Description

of Samples

6 nos. of 600mL sausages of "RLA Fire Pro FR Grey" water based fire rated acrylic

sealant were received.

Results

Refer to Summary Results on Page 2 and Detailed Results on Page 3 to 4.

Norhidayah Elias **Testing Officer**

Salim Suwignjo Principal Engineer (CMTD) Construction Technology Division

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CT-8500129331/SS/1

Summary Results of "RLA Fire Pro FR Grey" water based fire rated acrylic sealant.

Test	Test Result	
Adhesion / Cohesion under cyclic movement	No bond loss	
Adhesion in Peel	Concrete: 32.37N 0% adhesive bond	Plaster board: 18.68N 0% adhesive bond
Sealant exposed to continuous immersion in water.	No bond loss	

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Results:

(1) Adhesion/Cohesion under Cyclic Movement

Sample Reference	RLA Fire Pro FR Grey		
Specimen Reference	1	2	3
Date of Test	30/11/2020		
Test Conditions	23°C / 55% R.H.		
Type of Substrate	Concrete		
Observations	No loss of bond		

(2) Adhesion in Peel

Sample Reference	Reference RLA Fire Pro FR Grey			
Date of Test		23/11	1/2020	
Test Conditions		23°C / 55% R.H.		
Type of Sealant		Type III - Multi Component Flowable/Self Leveling		
Test Substrates		Concrete	Plaster board	
Peel Force (N)		22.76	20.39	
	(NI)	36.56	18.70	
	(N)	29.86	15.48	
		40.28	20.15	
Average Peel Force	(N)	32.37	18.68	
Adhesive Bond Loss	(%)	0	0	

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Results:

(3) Sealants Exposed to Continuous Immersion

Sample Reference	RLA Fire Pro FR Grey	
Conditioning Period @ 23±2°C , 50±5%R.H	01/11/2020 – 02/11/2020	
Curing Period	02/11/2020 — 30/11/2020	
Immersion Period @ 50°C	30/11/2020 - 12/01/2021	
Date of Test	12/01/2021	
Immersion Duration	6 weeks	
Substrate	Concrete	
Observation	No loss of bond	



Photograph 1: RLA Fire Pro FR Grey as received.

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Setsco Services Pte Ltd 18 Teban Gardens Crescent Singapore 608925 Tel: (65) 6566 7777

Fax: (65) 6566 7718 www.setsco.com

Business Reg. No. 196900269D Date: 22/02/2021

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Your Ref: P785834

Dated 26/10/2020

Subject

: Testing of "RLA Fire Pro FR Grey" water based fire rated acrylic sealant submitted by

Our Ref: CT-8500129331/SS/2

RLA Polymers Pty Ltd on 20/10/2020.

Tested For

: RLA POLYMERS PTY LTD

363 Wentworth Avenue Pende Hill NSW 2145

Australia 2145

Attn: Ms. Veera Elangovan

Method of

Test

: Volume shrinkage during cure

: ASTM C 1241 : 14

Description

of Samples

6 nos. of 600mL sausages of "RLA Fire Pro FR Grey" water based fire rated acrylic

sealant were received.

Results

: Refer to results on Page 2.

Norhidayah Elias **Testing Officer**

Salim Suwignjo Principal Engineer (CMTD) Construction Technology Division

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Results:

(1) Volume shrinkage during cure

Sample Reference		RLA Fire Pro FR Grey		
Specimen Reference		1	2	3
Date of Test Commencement		22/01/2021		
Date of Test Completion		19/02/2021		
Curing duration		28 days		
Sealant density	(g/ml)	1.5067		
Weight of plastic sheet	(g)	0.2073	0.2073	0.2095
Weight of fresh sealant	(g)	1.0786	1.1897	1.1845
Weight of sealant after cured	(g)	0.9368	1.0322	1.0278
Weight loss	(%)	13.15	13.24	13.23
Average Weight loss	(%)	13.21		
Volume shrinkage	(%)	19.95		



Photograph 1: RLA Fire Pro FR Grey as received.

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days.