COAT

eco

Thermal Insulating Coating

TM

What is C-COAT?

- C-COAT is an acrylic water based coating that is designed for heat blocking on various surfaces.
- It consists of exceptionally fine vacuumed ceramic, glass and acrylic spheres and other fillers to block heat.
- The heat flux is reduced by reflection, convection and significantly slows heat transfer through the coating due to very low thermal conductivity factors.
- As little as 0.5mm thickness will have a dramatic effect on the transfer of heat to/from the substrate.
- 1.0mm thickness of C-COAT has an equivalent thermal insulation to >200mm thickness of glass wool insulation, without the issue of CUI.
- It is suitable to be applied to a various range of substrates.



- 1. Gas filled ceramic, glass/silicate spheres
- 2. Gas filled acrylic spheres
- 3. Solid acrylic binder
- 4. Pigment

THERMAL INSULATING

C-COAT Features





C-COAT Integrated Solution

25%

- Roof
- Walls
- Windows



Energy loss through the:

- A) Sidewalls of a home accounts for nearly
 35% of the total energy loss
- B) Windows 10%
- C) Doors 15%
- D) Foundation 15%
- E) Roof 25%

C-COAT Advantages



- 1. Saves approximately up to 70% of Energy
- 2. High Thermal Resistance (equivalent R-value)
- 3. Seamless application
- 4. Durability
- 5. Ability of insulating the irregular surfaces
- 6. Improved Air Sealing
- 7. Reduced risk of Thermal bridging







Roof Application

0.5-1.0mm of C-Coat reduces A/C load by 20-25%

RESULTING

up to 30%-40% saving on energy



C-COAT Benefits

- Applied through standard airless, brush or roller
- Can be applied at surface temperatures of 10-90°C without any changes to the product.
- C-COAT Operating range of -40°C to 100°C (200 600°C for Industrial applications)
 - 100F Insulating to 100°C continuous with peaks of 120°C
 - 250ST Standard to 200°C continuous with peaks of 250°C for no more than 2hrs.
 - **300HT** HiTemp to 300°C continuous with peaks of 350°C for no more than 2hrs.
 - 600HTP HiTemp Pro 600 withstand up to 600°C continuous exposure with peaks of 630°C
- Can be tinted recommended to use a Top Coat if a particular colour is required
- Works to cool the surface and insulating immediately





Environment, Health and Safety THERMAL INSULATING SYSTEMS

- Biggest Enviro benefit is the reduction in power usage for heating and cooling.
- Helps prevent heat stroke, dehydration and exhaustion of workers.
- The product has minimal odour and is non-hazardous and is non dangerous goods.
- Clean-up is simple as all you need is water for all C-COAT products
- If overspray occurs it is easily removed without damaging the substrate





VOC Content Test Certificate

Wednesday 29th September 2021

Supplier: Acrylic Technologies Australia Pty Ltd (Unit 4, 128 Station Road, Seven Hills, NSW 2147 AUSTRALIA).

Sample Description: C-Coat Standard T250

Date Tested: September 2021 (Tested by FORAY Laboratories - NATA Accreditation 1231)

Test Method: ASTM D3960-05 Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings. ASTM D3960 as detailed for paints as well as South Coast Air Quality Management District (SCAQMD) Rule 1168.

Test Data:

OHS & I

Iytical Serv

Specification Green Building Council of Australia Green Star Design & As Built V1.3-13.1.1B Green Star Interiors V1.3-12.1.1B	C-Coat Standard T250
Interior Wall and Ceiling Paint limit: ≤16 grams per liter	13 grams per Litre as VOC content per material
We hereby certify that C-Coat Standard T250 product is below specified by Green Building Council of Australia, Green Star	

Dr. Vyt Garnys PhD, BSc(Hons) AIMM, ARACI, ISIAQ ACA, AIRAH, FMA Managing Director and Principal Consultant

Tour.

ACI, ISIAQ Dr. Tuan Duong ACI, ISIAQ PhD, BE (Chem. Eng.) Senior Consultant

C L S S M Could Dr Srikanth C. Srivatsa PhD (Chemistry) Consultant

V2109065

CETEC Pty Ltd ABN: 44 006 873 687 cetec.com.au | CETEC Foray Ltd Company No.:10251530 Melbourne | Sydney | Brisbane | Perth | London



S

	Organization/Unit:	فتبر دہـي المركزي Dubai Central Laborator	الوحدة التنظيمية:		
Document Tit		TEST REPO VOC CONT.OF ADHESIVES/SE MATERIALS	عنوان الوثيقة:	بلدية دبي	
	Doc. Ref. :	DM-DCLD-F-CM-	رقم الوثيقة:	1	
		ONSTRUCTION MATERIAL LABO		іт	
rt No:	455221	R	equest No: EMTX-202	2-1026360	
ct No:	8P-2022-409	R	eport Date: 24/06/20	22 08:55AM	
ct Name:	TESTING SERVIC	E FOR URBAN GREEN INSULATION /	uc		



Report No:	455221 Request No: EMTX-2022-1026360					
Project No:	8P-2022-409	409 Report Date: 24/06/2022 08:55AM				
Project Name:	TESTING SERVICE FOR URBAN GREEN INSULATION AND FIRE PROTECTION LLC					
Consultant:	URBAN GREEN INSULATION AND FIRE PROTECTION LL.C					
Contractor:	URBAN GREEN INSULATION AND FIRE PROTECTION LLC					
Location: *	AL JADAF DUBAI					
Source: *	NOT GIVEN					
Sample Description: *	COATING					
Product Name: *	C-COAT LIQUID THERMAL INSULATION					
Sampling Date/Time: *	15/06/2022 12:00PM	Lot/Batch/Coil/Heat No.*	NG			
Receiving Date/Time:	17/06/2022 08:07AM	Lot Size: *	1 litre			
Sample Size /Quantity:	1 litre	Sender No:	C-Coat Standard T250			
Material/Mix Type: *	NA Laying Date/Production Date: * NA					

TEST RESULTS

PARAMETER		RESULTS					
VOC Content in g/L			3				
SPECIFICATION LIMIT *		NG					
Sampled By:	SAIFUDDIN		Tested By:	REDASH			
Sampled Brought By:	SAIFUDDIN		Testing Date:	17/05/2022 08:07AM			
Sampling Method:	NOT GIVEN		Sampling Report No:	NA			
Test Method:	DMS 0033 : 2016		Test Method Variation:	NIL			
Remarks:	RECEIVED AND	FORMED SAMPLING AND PROVIDED TESTED.EXEMPT COMPOUNDS NOT REPORT REPRESENT THE SAMPLE	CALCULATED. THIS TEST M	ETHOD IS CHOSEN BY CUSTOME			

Disclaimer : * Information is supplied by the customer and Laboratory is not responsible for this data.

To verify this document please go to : https://www.dm.gov.ae/#check-tab5 Enter Document ID: EMTX-2022-1026360 and Verification Code: 713313

or Scan the QR code below.

COME



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Date of Issue :	02/05/2021	Rev No.: 3
بيانات مغتومة / Open Data	درجة السرية / Level of Confidentiality	Page 1 of 2

Ignis Fire Testing Laboratory

CERTIFICATE

Material Fire Test Certificate

test results apply to the specimens as received.

wowen metal radiant panel was used in lies of ceramic tiles.

After testing, the centres of the specimens were blackened and tharred

IGNL-6215-03-02C K21 R00 Specimen Identification C-Coat 7250NF

Test Method

Observations

into the test.

Require

Indices

25.08.2022 Spectrum Description 05.09.2022 The sponse described the spectrees as white spray-ox/peint-on thermal insulating costing. It is composed of an acrylic 04.09.2027

DOMMY DATE 04.09:2027 MG 1530.3-1099 MG 1530.3-1099 The specimees were received as a white painted material applied to a 5 mm Rive cement substrate for testing. They because were received as a white painted material applied to a 5 mm Rive cement substrate for testing. They because were received as a white painted material applied to a 5 mm Rive cement substrate for testing. They because the substrate for testing the substrate for testing. They because the substrate for testing.

flame propagation, heat release and smoke release

DATE OF TEST

ISSUE DATE

EXPRIVIDATE.

SPONSOR C-Coat

4/12E Station Road Seven Hills, NSW 2147

TEST BODY

Ignis Labs Pty Ltd A&N 36 620 256 617 3 Cooper Place Queanbryan NSW 2620 Australia

www.ignialabs.com.au (02) 6111 2909 Test body is the test location



Parameter	Sam	Ueit					Results				
Speckmen number			1	2	3	-4	5	6	7		9
Ignition time	Τ.	min	3.65	2.27	2.92	5.28	3.55	5.82	NA.	NA.	NA
Flame propagation time	T ₁	5		-						-	
Heat release integral		k1/m2	73.06	32.45	71.34	86.07	100.78	94.25	-		-
Optical density (ignition)	0	/m	0.03	0.02	0.02	0.05	0.07	0.10		-	
Optical density (non-ignition)	Dre .	/m						1.0			
Smoke release (ignition)	Log ₁₀ (D)		-1.51	-1.66	-1.66	-1.21	-1.17	-1.01	-		-
Smoke release (non ignition)	Loga(D)w			-	*	~	-	-	-		*
Calculation											
Parameter		Mean		Stand	ard erro	ar -	Uncert	thirty.			
Ignition time		3.21		1	0.23		0.103	9			
Flame propagation time											
Heat release integral		76.33		3	9.95		0.024	2			
Optical density (gnition)		0.05			10.0		0.024	2			
Optical density (non ignition)					-						
Smoke release		-1.37		3	0.11		0.229	9			
tesit											

Ignis Labs was not responsible for the sampling stage. All specimens were sampled and fabricated by the test sponsor. The

Six (6) samples were tested in accordance with Australian Standard 1530, Method for fire tests on building components and structures, Part 3: Simultaneous determination of ignitability, flarm propagation, heat release and smoke release, 1999.

The face with white coating was tested. For the test, each sample was clamped to the specimen holder in four places. A

All spectreen, ophibited equivalent behaviour, and all ignited during the test. Smoke and blatering from the face of the spectreens was observed between one and two minutes into the test with ignition starting between three and four minutes.

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 0-20
 17
 17
 17

 Spread of Reme
 0-10
 0
 0
 0

 Heat Evalued
 0-10
 3
 3
 3

 Sincke Developed
 0-10
 3
 4
 2

 The results only apply to the specime mounted as described in this report.
 F
 2

Percet

1

Darren Laker

Accelera Ying

Upper Limit

Lower Line R

Versien: X04,-07-0-Q-Issue 12 Revision 08

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grelph (D) All rights reserved. No part of the content of this document rear be reproduced, published, transmitted or adapted is any form or by any means without the written permission of tipic to Pay Ltd.

Page 1 of 1



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	Signification, onthe	Dubai Central Laborat	ory Department			
-12:52		TEST REP	ORT			
حمومتري	Document Title:	FORMALDEHYDE CONTI	ENT OF EMULSION	الوثيقة:	عنوان	بلديةدبي
COVERNMENT OF DUBAL		PAINTS BY	HPLC			DUBAI HUNCPALITY
t t	Doc. Ref. :	DM-DCLD-F-C		وثيقة:		
		ONSTRUCTION MATERIAL LA		وښعه.	כשק וי	
		MICAL ANALYSIS OF CONSTR		т		
Report No:	455895		Request No: EMTX-2022	2-1026360	0	
Project No:	BP-2022-409		Report Date: 27/06/202	2 11:04A	M	
Project Name:	TESTING SERVIC	E FOR URBAN GREEN INSULATIO	N AND FIRE PROTECTION L	.LC		
Consultant:	URBAN GREEN IN	NSULATION AND FIRE PROTECTION	ONILLC			
Contractor:	URBAN GREEN IN	NSULATION AND FIRE PROTECTION	ON LLC			
Location: *	AL JADAF DUBA					
Source: *	NOT GIVEN					
Sample Description:	 COATING 					
Product Name: *	C-COAT LIQUID	THERMAL INSULATION				
Sampling Date/Time	* 15/06/2022 124	00PM	Lot/Batch/Coil/Heat N	lo.*	NG	
Receiving Date/Time		07AM	Lot Size: *		1 litre	
	_		Sender No:		C-Coat	Standard T250
Sample Size / Quanti				C-Coat Standard T250		
Material/Mix Type: *	NA		Laying Date/Production	n Date: *	NA	
Material/Mix Type: * Nominal Size / Working	NA	TEST RESU		n Date: *	NA	
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Material/Mix Type: * Nominal Size / Working PARAMETER Average Formaldehyde (NA Block Size (mm) : NA		LTS RESULTS	n Date: *	NA	
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	02/03/2022	
Page 1	درجة السرية / Level of Confidentiality	بيانات مغتوحة /





Certificate of Compliance

CE

We hereby declare that the technical files of all the items in each product group complies with the requirements of the Council Directive on General Product Safety Directive (GPSD)

Certificate No: - 3737

Manufacturer : C-COAT INSULATION AUSTRALIA PTY LTD

Address : U4/128 STATION RD, SEVEN HILLS, NSW 2147 AUSTRALIA Products : C-COAT TIC - THERMAL INSULATING COATINGS

Products : C-COAT TIC – THERMAL INSULATING COATIN C-COAT TIP – THERMAL INSULATING PAINTS C-COAT ITC – INTUMESCENT COATINGS

Testing Laboratory

TY : KARPENKO INSTITUTE OF PHYSICS AND MECHANICAL ENGINEERING

Complies with the requirements applicable to it

The quality system file has been assessed, approved and is subject to continuous surveillance according to the Council Directive on General Product Safety Directive (GPSD) (2001/95/EC)

This certificate is issued under the following conditions:

- It applies only to the quality system maintained in the manufacture of above referenced models and it does not substitute the design or type examination procedures, if requested.
- The certificate remains valid until the manufacturing conditions or the quality systems are changed.
- 3. The certificate validity is conditioned by positive results or surveillance audits.

The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an RC Declaration of conformity and compliance with all relevant EC Directives. The statement is based on a single evaluation of test report of one sample of above mentioned product. It does not imply an assessment of the whole production.

Validity of this certificate can be verified at www.ukcertifications.org.uk/verify

Date of Certification	9th December 2022
1# Surveillance Audit Due	8th December 2023
2 nd Surveillance Audit Due	8th December 2024
Certificate Expiry (subject to the company maintaining	8th December 2025
its system to the required standard)	

Authorised Signatory



This certificate is the property of UK Certification & Inspection Limited and shall be returned immediately on request. 71-75 Shelton Storet, Corvent Gurden, London, WC2H 93Q, United Kingdom Webshe- www.ukeerifications.org.uk, email- info@ukeerifications.org.uk Company No. 11477851



Client Name

Sample Description

Coating Thickness

Sample brought in by Source of Sample

Orientation of Specimen

Ambient Temperature

Relative Humidity

Introduction:

Test Method:

of the material.

Calculation:

Test Data:

Item

No.

3

Test Result:

Test method Test method variation

Remarks

 $U = \frac{1}{\Sigma R_1}$

2 External Surface Resistance

1 R Value of C-Coat

2 U Value of C-Coat

Results relate only to the item tested.

Internal Surface Resistance

None

None

Offices: المكتب:

لين : متريق لاب - القوز | متريق لاب لغدمات Dubai: Material Lab, Al Quoz: +971 4 340 5678 Material Lab Testing Services L.L.C., Dubai Investment Park: اللحس ذيرم - مجمع دبي للاستثمار بوللس: +971 4 333 9562, Abu Dhabi: Material Lab Testing Services الموالي إن مترول لاب للندمات القحص ذريم

. LLC_ Mussafah: +971 2 550 3040

Sampling Method

Sampling Date

Sampled by

Test specimen size (L x W x T)

Address Praiect Name



Dubai: +971 4 340 5677 Abu Dhabi: +971 2 550 3041

mid@eim.ae miab@miab.ae

Dubai: 114717 Abu Dhabi: 61831

1.0mm of C-COAT

×430×1160mm

15

11.4

Pilbara Desert WA Thermal Test Air-conditioner used:

Site Temp 43°C

Thickness Gauge 0.16 BASF 0.18 **CONVERSION TABLE** Layer theoress 0.19 INCH MILS mm μm 1.039 0.00003 0.001 1 0.2 1,000 1 39.4 0.039 25.4 0.025 0.001 1 1.000 25,400 25.4 0.3 °C 10 20 30 -10 0.4 23 32 50 68 86 0.6 0.7 0.8 0.9 1.0

1.0kw **Inside Temperature**

Dennco

33°C

www.florens.con benno

11-1110-24

Inside Temperature

Air-conditioner used: 0.6kw

22°C



Containers Breakdown of Results



Uncoated Container Internal temp

After 1hr running:

- Uncoated used
- 1 kWh to drop temp by 2.6°C
 - Coated used

0.5 kWh to drop the temp 4.9°C

80% more cooling!

40% less energy!

Coated Container Internal temp

COAT

THERMAL INSULATING

Before Test	After Test





Thank You!



Coated Sydney Thermal Test Roof, Insulated and C White Roof,







Graphic Breakdown of Results





