THE NATIONAL ACADEMY OF SCIENCES OF UKRAINE - EUROPE
KARPENKO INSTITUTE OF PHYSICS AND MECHANICAL ENGINEERING
Laboratory for Certification Testing of corrosion-resistant insulating coatings of pipelines
Laboratory No. 11

C·COAT™

THERMAL INSULATING COATING SYSTEMS

TESTING PROGRAM 2021

CONTENT

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KARPENKO INSTITUTE OF PHYSICS AND MECHANICAL ENGINEERING
Address: 5 Naukova Street, Lviv, UKRAINE 79060 EUROPE
Phone: +32 263 40 66 Email: dep43@ipm.lviv.ua

THE NATIONAL ACADEMY OF SCIENCES OF UKRAINE - EUROPE

KARPENKO INSTITUTE OF PHYSICS AND MECHANICAL ENGINEERING

Laboratory for Certification Testing of corrosion-resistant insulating coatings of pipelines

Laboratory № 11

LABORATORY PURPOSE:

- Certification of materials and coatings, development of new insulation materials; Development of methods for predicting life time and accelerated assessment of protective properties of coatings, development of regulatory documentation in this field.

THE MAIN ACTIVITIES OF THE LABORATORY:

- Certification tests of domestic and imported film, polymer, paint, mastic, anti-corrosion coatings and thermal insulation materials used in the national economy to protect against corrosion;
- Experimenting with new materials and designs of coatings;
- Consulting, examination of Standards and technical documentation, issuance of conclusions on the use of materials;
- Participation in carrying out technical supervision of production of materials, control and acceptance tests of coverings on objects;
- Development and approval of technical conditions and standards for materials;
- Development of methods of materials testing, transfer to customers of copies of methods, technical conditions, standards and other normative documents developed by the laboratory for heat-insulating and anti-corrosion materials;
- Research of physical-mechanical and protective properties of materials, participation in development of new anticorrosive materials and coverings.

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Address: 5 Naukova Street, Lviv, UKRAINE 79060 EUROPE
Phone: +32 263 40 66 Email: dep43@ipm.lviv.ua

Chervatyuk Vladimir Arsenovich
Head of the laboratory, Ph.D., Senior Researcher
(032) 263-40-66
(032) 229-69-18
valdars@i.ua

Stekhnovych Lyubov Volodymyrivna
Senior Engineer
(032) 263-40-66
(032) 229-69-18
proba@gmail.com

Drozda Lydia Mikhailovna
Engineer category I
(032) 263-40-66
(032) 229-69-18
proba@gmail.com

Fedyuk Daryna Volodymyrivna
Engineer category II
(032) 263-40-66
(032) 229-69-18
proba@gmail.com

PUBLICATIONS

1. Anticorrosive material based on fast-harding bitumen-latex emulsion, Application 2013 a 201312497, Conclusion on compliance of the invention with the conditions of patentability according to the results of the qualification examination of April 30, 2015.
2. VA Chervatyuk, IM Kushnir Protective properties of coating systems based on fast-setting bitumen-latex emulsions for corrosion protection of pipelines and objects of oil and gas complex (Physico-chemical mechanics of materials. Problems of corrosion and corrosion protection of materials. Special issue № 10, 2014, Volume 1, pp.245-249)
3. VA Chervatyuk, IM Kushnir Anticorrosion Coatings based on a Water-Bitumen-Polymeric Composite with High Rates of Formation (Materials Science November 2013, Volume 49, Issue 3, pp 404-407)
4. VA Chervatyuk, IM Kushnir Anti-corrosion coatings based on aqueous bitumen-polymer composition with a high rate of formation (Physico-chemical mechanics of materials, №3, 2013, P.110-113)
5. VA Chervatyuk, IM Kushnir, OE Wallis System of anticorrosive coating based on bitumen-polymer composition (Bulletin of Lviv Polytechnic National University, "Chemistry, technology of substances and their application", № 761, NU Publishing House Lviv Polytechnic », Lviv-2013-P.261-264)

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The Thermal Conductivity of the coating film C-COAT™T250

Report No : 89-42 P -SN1/2

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3758-1
Contractor	: NP	Sample No :	01-4994/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ T250**	Date day started :	02/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Thermal Condusctivity (W/m*K), not more	DSTU D B 2.5-41 / ASTM C 518-10	0.035

Test Method : DSTU D B 2.5-41 / ASTM C 518-10
Conditioning of Specimen : Good
Method variation : Nil
Remarks : (I) Specimen was conditioned in such a way that change in mass within 24h, was less than 1%;
(ii) Preparation of specimen was carried out by Client
(iii) Conditioning of specimen was carried out in accordance with DSTU(ДСТУ) B.V 2.5-41
(iv) Thermal Conductivity of C-COAT Standard (T250) was measured by measuring the "K" value of polystyrene foam. This polystyrene was coated with C-COAT™ insulation and "K" value was measured again. Reported value is in a difference in the "K" value.

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	300 x 300	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

Test No 1	0.0345
Test No 2	0.0353
Test No 3	0.0350

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The Diffuse reflection coefficient of the coating film C-COAT™T250

Report No : 89-44 P -SN1/16

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3901-1
Contractor	: NP	Sample No :	01-5351/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ T250**	Date day started :	07/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Diffuse reflection coefficient, % (not less than)	GOST 896-69	**90**

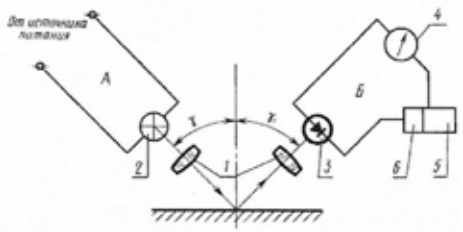
Test Method : GOST 896-69
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. **INSTRUMENT used in method for Certificat**



Bliced/Gloss-measures FB-2

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

Test No 1	90
Test No 2.	89
Test No 3	91

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The Mass fraction of non-volatile substances of the coating film C-COAT™T250

Report No : 89-48 P -SN1/1

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3390-1
Contractor	:	NP	Sample No :	01-5135/1
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	02/09/2021
Sample Name	:	**Insulation Coating C-COAT™ T250**	Date day started :	04/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

Determination of non-volatile-matter content substances %, not less	DSTU ISO 3251 cluster 6.6	**58,0**

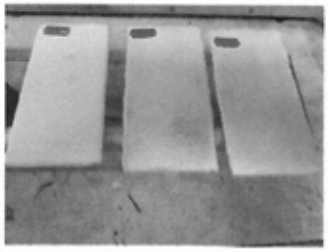
Test Method : DSTU ISO 3251 cluster 6.6
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification



2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

Test No 1	58,0
Test No 2.	58,0
Test No 3	58,0

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The determination of hardness, SHORE "A" of the coating film C-COAT™T250

Report No : 89-55 P -SN1/1

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3938-1
Contractor	: NP	Sample No :	01-5413/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	05/09/2021
Sample Name	: **Insulation Coating C-COAT™ T250**	Date day started :	13/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Determination of indentation hardness with a durometer (**Shore "A" hardness**).	ISO 868: 2003	A/15:64

Test Method : ISO 868:2003
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Cherepatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

Test No 1	15:60
Test No 2.	15:64
Test No 3	15:64

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The Solar Reflective Index of the coating film C-COAT™T250

Report No : 89-71 P -SN1/11

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3981-3
Contractor	: NP	Sample No :	01-5371/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	06/09/2021
Sample Name	: **Insulation Coating C-COAT™ T250**	Date day started :	07/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Solar Reflective Index (SRI), % (not less than)	ASTM E 1980:11	**105.3**

Test Method : ASTM E 1980:11
Conditioning of Specimen : Good
Method variation : Nil
Remarks : SRI for low wind condition

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. **INSTRUMENT used in method for Certificat**

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

Test No 1	105.28
Test No 2.	105.30
Test No 3	105.31

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The Adhesion of the coating film C-COAT™T250

Report No : 89-74 P -SN1/2

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3897-2
Contractor	: NP	Sample No :	01-5312/2
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ T250**	Date day started :	07/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

The adhesion MPa of the coating film: Conctrete Brick Steel	DSTU ISO 4624	 **1.3** **1.5** **1.0**

Test Method : DSTU ISO 4624
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	1.3	Test No 1 1.5	Test No 1 1.0
Test No 2.	1.3	Test No 2 1.48	Test No 2 1.0
Test No 3	1.27	Test No 3 1.5	Test No 3 1.0

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The Determination of water permeability of the coating film C-COAT™T250

Report No : 89-80 P -SN1/1

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3898-1
Contractor	: NP	Sample No :	01-5311/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ T250**	Date day started :	07/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Determination of water permeability, % not more than	DSTU EN 1062-3:2015	**2**

Test Method : DSTU EN 1062-3:2015
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

Scale analytical – VLA 200 - - Accuracy class, error: 0.0001 gram;
Drying laboratory cabinet - SNOL -3.5 3.5 5/3 - Accuracy class, error: 2 °C ;
Glass thermometer, laboratory – TL 5 - Accuracy class, error: 1 °C.

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

Test No 1	2
Test No 2.	2
Test No 3	2.2

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The DRY TIME of the coating film C-COAT™T250

Report No : 89-87 P –SN2/2

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3996-1
Contractor	: NP	Sample No :	01-5314/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	07/09/2021
Sample Name	: **Insulation Coating C-COAT™ T250**	Date day started :	14/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Drying time - (to touch) 20±2°C, hour, not more:	DSTU ISO 9117-1	**0,8**
Dry Time (allowed to walk), (20±2) °C, hour, not more:	DSTU ISO 9117-1	**21**

Test Method : DSTU ISO 9117-1
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

Test No 1	0.8	Test No 1	21
Test No 2.	0.8	Test No 1	21.5
Test No 3	0.8	Test No 1	21

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The Impact strength of the coating film C-COAT™T250

Report No : 89-90 P -SN1/1

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3968-1
Contractor	:	NP	Sample No :	01-5333/1
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	05/09/2021
Sample Name	:	**Insulation Coating C-COAT™ T250**	Date day started :	13/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

The Impact strength of the coating film	DSTU ISO 9117-1	40

Test Method : DSTU ISO 9117-1
Conditioning of Specimen : Excellent
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

Test No 1	40
Test No 2.	39.4
Test No 3	40

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The Resistance to the static effects of water of the coating film Temperature stability of the coating +100°C C-COAT™T250

Report No : 89-92 P –SN2/2

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3966-3
Contractor	: NP	Sample No :	01-5343/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	06/09/2021
Sample Name	: **Insulation Coating C-COAT™ T250**	Date day started :	13/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Resistance to the static effects of water at a temperature (20±2) oC, hour, not less	DSTU ISO 2812-2	Withstand
Temperature stability of the coating, **100 °C**, not less 1 h	TU U 20.3-412310002-002:2019	Withstand

Test Method : DSTU ISO 2812-2
Conditioning of Specimen : Excellent
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Shevchuk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

Test No 1	withstand
Test No 2.	withstand
Test No 3	withstand

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The Appearance of the coating film C-COAT™T250

Report No : 89-97 P -SN1/1

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3964-3
Contractor	: NP	Sample No :	01-5351/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	05/09/2021
Sample Name	: **Insulation Coating C-COAT™ T250**	Date day started :	13/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

The appearance of the coating film	TU U 20.3-41231002-002:2019	Smooth, homogeneous surface without foreign inclusions, **color white**

Test Method : Appearance according TU
Conditioning of Specimen : Excellent
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

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Address: 5 Naukova Street, Lviv, UKRAINE 79060 EUROPE
Phone: +32 263 40 66 Email: dep43@ipm.lviv.ua
www.ipm.lviv.ua

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The Elasticity of the coating film C-COAT™T250

Report No : 89-97 P -SN1/4

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3988-1
Contractor	:	NP	Sample No :	01-5374/1
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	07/09/2021
Sample Name	:	**Insulation Coating C-COAT™ T250**	Date day started :	13/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

The elasticity of the coating film (Band Test)	DSTU ISO 1519	5.0

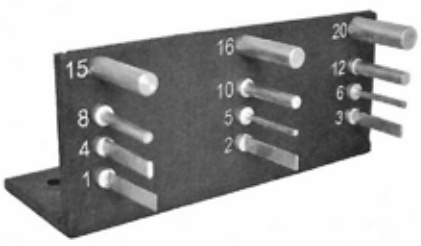
Test Method : DSTU ISO 1519
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory: Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification



2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T250	

3. TABULATED RESULTS of measurement

Test No 1	5
Test No 2.	5
Test No 3	4.7

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The Thermal Conductivity of the coating film C-COAT™ Standard NF

Report No : 89-46 P -SN1/5

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3759-5
Contractor	: NP	Sample No :	01-4999/3
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ Standard NF**	Date day started :	02/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Thermal Condusctivity (W/m*K), not more	DSTU D B 2.5-41 / ASTM C 518-10	0.035

Test Method : DSTU D B 2.5-41 / ASTM C 518-10
Conditioning of Specimen : Good
Method variation : Nil
Remarks : (I) Specimen was conditioned in such a way that change in mass within 24h, was less than 1%;
(ii) Preparation of specimen was carried out by Client
(iii) Conditioning of specimen was carried out in accordance with DSTU B.V 2.5-41
(iv) Thermal Conductivity of C-COAT Standard NF was measured by measuring the "K" value of polystyrene foam. This polystyrene was coated with C-COAT™ insulation and "K" value was measured again. Reported value is in a difference in the "K" value.

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

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1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	300 x 300	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	0.0345
Test No 2	0.0353
Test No 3	0.0350

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The determination of hardness, SHORE "A" of the coating film C-COAT™ Standard NF

Report No : 89-58 P -SN1/4

Client	:	**C-COAT Insulation Australia Pty Ltd**			
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3939-9	
Contractor	:	NP	Sample No :	01-5435/1	
Consultant	:	NP	Date of Sampling :	NP	
Project	:	Co	Date Sample Received :	05/09/2021	
Sample Name	:	**Insulation Coating C-COAT™ Standard NF**	Date day started :	13/09/2021	
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021	
SizeofSample	:	NP	Report Date :	22/09/2021	
Supplier	:	Client	Date of Calibration :	02/09/2021	
Manufacturer	:	Client	Relative Humidity :	50%	
Sampled by	:	Client	Testing Room Temp. :	24°C	
Sample broughtin by	:	Client	Tested by :	CHERV	

Determination of indentation hardness with a durometer (**Shore "A" hardness**).	ISO 868: 2003	A/15:64

Test Method : ISO 868:2003
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	15:60
Test No 2.	15:64
Test No 3	15:64

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The Diffuse reflection coefficient of the coating film C-COAT™ Standard NF

Report No : 89-58 P -SN1/11

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3891-2
Contractor	: NP	Sample No :	01-5362/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ Standard NF**	Date day started :	07/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Diffuse reflection coefficient, % (not less than)	GOST 896-69	**90**

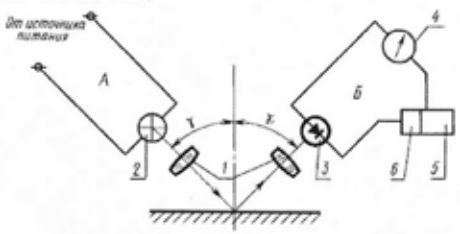
Test Method : GOST 896-69
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatyuk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. **INSTRUMENT used in method for Certificat**



Bliced/Gloss-measures FB-2

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	90
Test No 2.	89
Test No 3	91

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The Mass fraction of non-volatile substances of the coating film C-COAT™ Standard NF

Report No : 89-69 P -SN1/1

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3420-4
Contractor	: NP	Sample No :	01-5157/2
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ Standard NF**	Date day started :	04/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Determination of non-volatile-matter content substances %, not less	DSTU ISO 3251 cluster 6.6	**60,0**

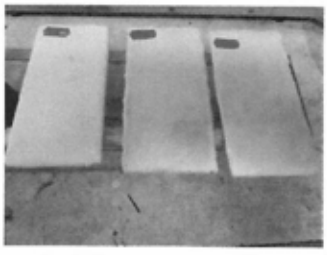
Test Method : DSTU ISO 3251 cluster 6.6
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification



2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	60,0
Test No 2.	60,0
Test No 3	61,0

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The Solar Reflective Index of the coating film C-COAT™ Standard NF

Report No : 89-72 P -SN1/5

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3581-
Contractor	:	NP	Sample No :	01-5389/1
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	06/09/2021
Sample Name	:	**Insulation Coating C-COAT™ Standard NF**	Date day started :	07/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

Solar Reflective Index (SRI), % (not less than)	ASTM E 1980:11	**105.3**

Test Method : ASTM E 1980:11
Conditioning of Specimen : Good
Method variation : Nil
Remarks : SRI for low wind condition

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. **INSTRUMENT used in method for Certificat**

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	105.28
Test No 2.	105.30
Test No 3	105.31

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The Adhesion of the coating film C-COAT™ Standard NF

Report No : 89-76 P -SN1/3

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3899-6
Contractor	: NP	Sample No :	01-5329/2
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ Standard NF**	Date day started :	07/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

The adhesion MPa of the coating film: Conctrete Brick Steel	DSTU ISO 4624	 **1.3** **1.5** **1.0**

Test Method : DSTU ISO 4624
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	1.3	Test No 1 1.5	Test No 1 1.0
Test No 2.	1.3	Test No 2 1.48	Test No 2 1.0
Test No 3	1.27	Test No 3 1.5	Test No 3 1.0

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The DRY TIME of the coating film C-COAT™ Standard NF

Report No : 89-79 P –SN1/1

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3942-3
Contractor	: NP	Sample No :	01-5378/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	07/09/2021
Sample Name	: **Insulation Coating C-COAT™ Standard NF**	Date day started :	14/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Drying time - (**to touch**) 20±2°C, hour, not more:	DSTU ISO 9117-1	**0,8**
Dry Time (**allowed to walk**), (20±2) °C, hour, not more:	DSTU ISO 9117-1	**21**

Test Method : DSTU ISO 9117-1
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chetvertiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	0.8	Test No 1	21
Test No 2.	0.8	Test No 1	21.5
Test No 3	0.8	Test No 1	21

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The Determination of water permeability of the coating film C-COAT™ Standard NF

Report No : 89-83 P -SN1/4

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3897-6
Contractor	: NP	Sample No :	01-5341/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ Standard NF**	Date day started :	07/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Determination of water permeability, % not more than	DSTU EN 1062-3:2015	**2**

Test Method : DSTU EN 1062-3:2015
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

Scale analytical – VLA 200 - - Accuracy class, error: 0.0001 gram;
Drying laboratory cabinet - SNOL -3.5 3.5 5/3 - Accuracy class, error: 2 °C ;
Glass thermometer, laboratory – TL 5 - Accuracy class, error: 1 °C.

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	2
Test No 2.	2
Test No 3	2.2

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The Impact strength of the coating film C-COAT™ Standard NF

Report No : 89-89 P -SN1/4

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3972-1
Contractor	:	NP	Sample No :	01-5348/3
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	05/09/2021
Sample Name	:	**Insulation Coating C-COAT™ Standard NF**	Date day started :	13/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

The Impact strength of the coating film	DSTU ISO 9117-1	40

Test Method : DSTU ISO 9117-1
Conditioning of Specimen : Excellent
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory 03504506 Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	40
Test No 2.	39.4
Test No 3	40

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The Resistance to the static effects of water of the coating film Temperature stability of the coating +100°C C-COAT™Standard NF

Report No : 89-95 P –SN3/6

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3969-9
Contractor	: NP	Sample No :	01-5349/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	06/09/2021
Sample Name	: **Insulation Coating C-COAT™ Standard NF**	Date day started :	13/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Resistance to the static effects of water at a temperature (20±2) oC, hour, not less	DSTU ISO 2812-2	Withstand
Temperature stability of the coating, **100 °C**, not less 1 h	TU U 20.3-412310002-002:2019	Withstand

Test Method : DSTU ISO 2812-2
Conditioning of Specimen : Excellent
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	withstand
Test No 2.	withstand
Test No 3	withstand

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The Appearance of the coating film C-COAT™ Standard NF

Report No : 89-97 P –SN3/5

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3966-8
Contractor	:	NP	Sample No :	01-5359/1
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	05/09/2021
Sample Name	:	**Insulation Coating C-COAT™ Standard NF**	Date day started :	13/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

The appearance of the coating film	TU U 20.3-41231002-002:2019	Smooth, homogeneous surface without foreign inclusions, **color white**

Test Method : Appearance according TU
Conditioning of Specimen : Excellent
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervanyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	white
Test No 2.	white
Test No 3	white

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The Elasticity of the coating film C-COAT™Standard NF

Report No : 89-98 P –SN3/2

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3898-1
Contractor	: NP	Sample No :	01-5354/2
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	07/09/2021
Sample Name	: **Insulation Coating C-COAT™ Standard NF**	Date day started :	13/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

The elasticity of the coating film (Band Test)	DSTU ISO 1519	5.0

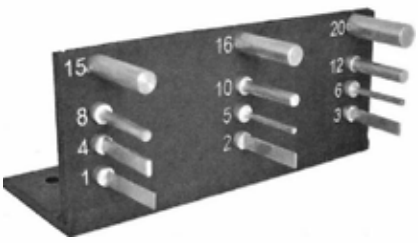
Test Method : DSTU ISO 1519
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification



2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	Standard NF	

3. TABULATED RESULTS of measurement

Test No 1	5
Test No 2.	5
Test No 3	4.7

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Address: 5 Naukova Street, Lviv, UKRAINE 79060 EUROPE
Phone: +32 263 40 66 Email: dep43@ipm.lviv.ua

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The Thermal Conductivity of the coating film C-COAT™T300

Report No : 89-45 P -SN1/1

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3760-3
Contractor	: NP	Sample No :	01-4950/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ T300**	Date day started :	02/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Thermal Condusctivity (W/m*K), not more	DSTU D B 2.5-41 / ASTM C 518-10	0.035

Test Method : DSTU D B 2.5-41 / ASTM C 518-10
Conditioning of Specimen : Good
Method variation : Nil
Remarks : (I) Specimen was conditioned in such a way that change in mass within 24h, was less than 1%;
(ii) Preparation of specimen was carried out by Client
(iii) Conditioning of specimen was carried out in accordance with DSTU(ДСТУ) B.V 2.5-41
(iv) Thermal Conductivity of C-COAT Standard (T250) was measured by measuring the "K" value of polystyrene foam. This polystyrene was coated with C-COAT™ insulation and "K" value was measured again. Reported value is in a difference in the "K" value.

Authorized signatory
Head of the Laboratory Chervatiuk V.A.

ФІЗИКО-МЕХАНІЧНИЙ ІНСТИТУТ ім. Г.В. КАРПЕНКА НАЦІОНАЛЬНОЇ АКАДЕМІЇ НАУК УКРАЇНИ КАНЦЕЛЯРІЯ 03534506 м. ЛЬВІВ УКРАЇНА

TEST REPORT

The instrument used, description of samples tested and tabulated results.

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Laboratory for Certification Testing of corrosion-resistant insulating coatings of pipelines
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1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	300 x 300	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	0.0343
Test No 2.	0.0351
Test No 3	0.0350

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Laboratory No. 11

The Mass fraction of non-volatile substances of the coating film C-COAT™T300

Report No : 89-46 P -SN1/1

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3300-1
Contractor	: NP	Sample No :	01-5129/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ T300**	Date day started :	04/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Determination of non-volatile-matter content substances %, not less	DSTU ISO 3251 cluster 6.6	**56,0**

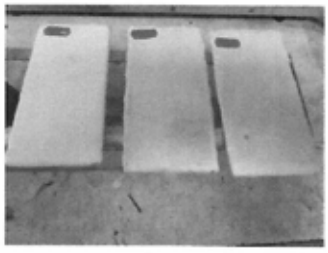
Test Method : DSTU ISO 3251 cluster 6.6
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory _____ Cheryatnyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification



2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.2	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	56,0
Test No 2.	56,0
Test No 3	56,0

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Laboratory No. 11

The Diffuse reflection coefficient of the coating film C-COAT™T300

Report No : 89-50 P -SN1/6

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-39111-1
Contractor	:	NP	Sample No :	01-5381/1
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	04/09/2021
Sample Name	:	**Insulation Coating C-COAT™ T300**	Date day started :	07/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

Diffuse reflection coefficient, % (not less than)	GOST 896-69	**93**

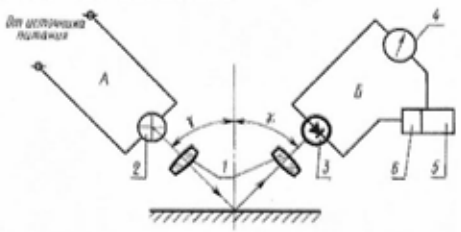
Test Method : GOST 896-69
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatyuk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. **INSTRUMENT used in method for Certificat**



Bliced-measures FB-2

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.2	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	93
Test No 2.	93
Test No 3	94

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Laboratory No. 11

The determination of hardness, SHORE "A" of the coating film C-COAT™T300

Report No : 89-54 P -SN1/1

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3929-1
Contractor	: NP	Sample No :	01-5393/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ T300**	Date day started :	13/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Determination of indentation hardness with a durometer (**Shore "A" hardness**).	ISO 868: 2003	A/15:64

Test Method : ISO 868:2003
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory ~~Chervatyuk~~ V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	15:64
Test No 2.	15:65
Test No 3	15:64

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The Solar Reflective Index of the coating film C-COAT™T300

Report No : 89-70 P -SN1/8

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3975-1
Contractor	:	NP	Sample No :	01-5369/1
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	05/09/2021
Sample Name	:	**Insulation Coating C-COAT™ T300**	Date day started :	07/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

Solar Reflective Index (SRI), % (not less than)	ASTM E 1980:11	**110.0**

Test Method : ASTM E 1980:11
Conditioning of Specimen : Good
Method variation : Nil
Remarks : SRI for Low wind condition

Authorized signatory
Head of the Laboratory Chervatiuk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. **INSTRUMENT used in method for Certificat**

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.2	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	110.05
Test No 2.	110.00
Test No 3	109.95

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Laboratory No. 11

The Adhesion of the coating film C-COAT™T300

Report No : 89-75 P -SN1/2

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3899-2
Contractor	: NP	Sample No :	01-5312/2
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ T300**	Date day started :	07/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

The adhesion MPa of the coating film: Conctrete Brick Steel	DSTU ISO 4624	 **1.3** **1.5** **1.0**

Test Method : DSTU ISO 4624
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory 03644506 Cherkatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	1.3	Test No 1 1.5	Test No 1 1.0
Test No 2.	1.3	Test No 2 1.48	Test No 2 1.0
Test No 3	1.27	Test No 3 1.5	Test No 3 1.0

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Laboratory No. 11

The Determination of water permeability of the coating film C-COAT™T300

Report No : 89-82 P –SN2/1

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3902-1
Contractor	: NP	Sample No :	01-5325/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	02/09/2021
Sample Name	: **Insulation Coating C-COAT™ T300**	Date day started :	07/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Determination of water permeability, % not more than	DSTU EN 1062-3:2015	**2.2**

Test Method : DSTU EN 1062-3:2015
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

Scale analytical – VLA 200 - - Accuracy class, error: 0.0001 gram;
Drying laboratory cabinet - SNOL -3.5 3.5 5/3 - Accuracy class, error: 2 °C ;
Glass thermometer, laboratory – TL 5 - Accuracy class, error: 1 °C.

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	2.2
Test No 2.	2.1
Test No 3	2.2

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The Impact strength of the coating film C-COAT™T300

Report No : 89-91 P -SN1/2

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3969-2
Contractor	:	NP	Sample No :	01-5337/1
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	05/09/2021
Sample Name	:	**Insulation Coating C-COAT™ T300**	Date day started :	13/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

The Impact strength of the coating film	DSTU 4765 ISO 6272-2002	40

Test Method : DSTU 4765 ISO 6272-2002
Conditioning of Specimen : Excellent
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	40
Test No 2.	39.4
Test No 3	40

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Laboratory for Certification Testing of corrosion-resistant insulating coatings of pipelines

Laboratory No. 11

The DRY TIME of the coating film C-COAT™T300

Report No : 89-91 P –SN2/1

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3969-1
Contractor	: NP	Sample No :	01-5315/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	07/09/2021
Sample Name	: **Insulation Coating C-COAT™ T300**	Date day started :	14/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

Drying time - (to touch) 20±2°C, hour, not more:	DSTU ISO 9117-1	**0,8**
Dry Time (allowed to walk), (20±2) °C, hour, not more:	DSTU ISO 9117-1	**21**

Test Method : DSTU ISO 9117-1
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Cherviatyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	0.8	Test No 1	21
Test No 2.	0.8	Test No 1	21.5
Test No 3	0.8	Test No 1	21

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The Elasticity of the coating film C-COAT™T300

Report No : 89-94 P -SN1/2

Client	: **C-COAT Insulation Australia Pty Ltd**		
Address	: Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3980-2
Contractor	: NP	Sample No :	01-5369/1
Consultant	: NP	Date of Sampling :	NP
Project	: Co	Date Sample Received :	07/09/2021
Sample Name	: **Insulation Coating C-COAT™ T300**	Date day started :	13/09/2021
Sample Description	: **Coating Material**	Date test completed :	22/09/2021
SizeofSample	: NP	Report Date :	22/09/2021
Supplier	: Client	Date of Calibration :	02/09/2021
Manufacturer	: Client	Relative Humidity :	50%
Sampled by	: Client	Testing Room Temp. :	24°C
Sample broughtin by	: Client	Tested by :	CHERV

The elasticity of the coating film (**Bend test** (cylindrical mandrel)	DSTU ISO 1519	5.0

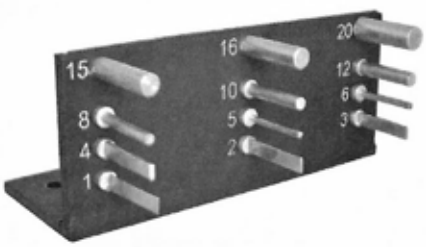
Test Method : DSTU ISO 1519
Conditioning of Specimen : Good
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification



2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	5.0
Test No 2.	5.0
Test No 3	4.8

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The Resistance to the static effects of water of the coating film Temperature stability of the coating +300°C C-COAT™T300

Report No : 89-96 P –SN2/4

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3969-2
Contractor	:	NP	Sample No :	01-5353/6
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	06/09/2021
Sample Name	:	**Insulation Coating C-COAT™ T300**	Date day started :	13/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

Resistance to the static effects of water at a temperature (20±2) oC, hour, not less	DSTU ISO 2812-2	Withstand
Temperature stability of the coating, **300 °C**, not less 1 h	TU U 20.3-412310002-002:2019	Withstand

Test Method : DSTU ISO 2812-2
Conditioning of Specimen : Excellent
Method variation : Nil
Remarks :

Authorized signatory
Head of the Laboratory ~~03534596~~ Chervatiyk V.A.

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T300	

3. TABULATED RESULTS of measurement

Test No 1	withstand
Test No 2.	Withstand
Test No 3	withstand

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The Appearance and Hard content of the coating film C-COAT™T300

Report No : 89-99 P -SN1/1

Client	:	**C-COAT Insulation Australia Pty Ltd**		
Address	:	Unit 4, 128 Station Road, Seven Hills NSW 2147 AUSTRALIA	Lab Project No :	P-3969-2
Contractor	:	NP	Sample No :	01-5356/1
Consultant	:	NP	Date of Sampling :	NP
Project	:	Co	Date Sample Received :	05/09/2021
Sample Name	:	**Insulation Coating C-COAT™ T300**	Date day started :	13/09/2021
Sample Description	:	**Coating Material**	Date test completed :	22/09/2021
SizeofSample	:	NP	Report Date :	22/09/2021
Supplier	:	Client	Date of Calibration :	02/09/2021
Manufacturer	:	Client	Relative Humidity :	50%
Sampled by	:	Client	Testing Room Temp. :	24°C
Sample broughtin by	:	Client	Tested by :	CHERV

The appearance of the coating film	TU U 20.3-41231002-002:2019	Smooth, homogeneous surface without foreign inclusions, **color white**
Mass fraction of hard content in substances %, %, not less	DSTU ISO 3251 cluster 6.6	58.0 (test error 0.8%)

Test Method	: Appearance according TU
Conditioning of Specimen	: Excellent
Method variation	: Nil
Remarks	:

Authorized signatory
Head of the Laboratory Chervatiyk V.A.

KARPENKO INSTITUTE OF PHYSICS AND MECHANICAL ENGINEERING
Address: 5 Naukova Street, Lviv, UKRAINE 79060 EUROPE
Phone: +32 263 40 66 Email: dep43@ipm.lviv.ua
www.ipm.lviv.ua

TEST REPORT

The instrument used, description of samples tested and tabulated results.

1. INSTRUMENT used in method for Certification

2. SAMPLES used in method for Certification

Sample size:	100 x 200	[mm]
Coating thickness:	1.0	[mm]
C-COAT modification	T300	

THERMAL INSULATING COATING SYSTEMS

C-COAT Insulation Australia Pty Ltd

Unit 4, 128 Station Road
SEVEN HILLS, NSW 2147
AUSTRALIA

Ph: + 61 2 9674 3005
Email: support@c-coat.com.au

WWW.C-COAT.COM.AU