



National Test House (Eastern Region)

11/1, जजेस कोर्ट रोड, अलीपुर, कोलकाता - 700 027 11/1, Judges' Court Road, Alipore, Kolkata - 700 027

परीक्षण प्रमाण पत्र

Single

TEST CERTIFICATE

INTERIM/FINAL REPORT

परीक्षण प्रमाण पत्र सं Test Certificate No

Number of Copies issued

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कोड नं Code No पृष्ठ Page पृष्ठीं की संख्या No of Pages

NTH(ER)/CH(P)/2019/00333

Date of Issue 28/02/2020

1576565926067

1

No of Pag

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Address

CORRO PROTECTION ENGINEERING

107/B, D-BLOCK, BAGHAJATIN, P.O. JADAVPUR, KOLKATA-

700032

पाहक का सन्दर्भ सं एवं दिनांक

Customer's Ref. No.

NIL

Date: 16/12/2019

पंजिका सं एवं दिनांक

Register No & Date

परीक्षण सामग्री का विवरण

Description of Test Item

परीक्षण सामग्री का पहचान Identification of Test Item 00333/NTH(ER)/CH(P)/19/12/2019

Solventless Food Grade Epoxy (CORROPOXY- FGE 400)

Sample received in one tin container (base) & Plastic container

(hardener) describe as solventless food grade epoxy(Corropoxy-FGE 400) Mfg: M/s Corro Protection

engineering.

नमुना का विशिष्टि (यदि हों) Product Specification (Fany)

नमुना प्राप्ति की तिथि Date of Receipt of the Test Item

कार्य सम्पादन की तिथि Date(s) of Performance of Tests

व्यावद्वत प्रणाली का पहचान Method(s) used for Test

नमुना प्रक्रिया जहाँ प्रासंगिक हों Sampling Procedure where relevant AWWA C-210-2015

17/12/2019

From: 23/12/2019

To: 21/02/2020

On the lines of AWWA C210-2015 and ASTM

Sample is prepared by mixing Base and Hardener in the ratio of

3:1 by volume.

Tested By

Sona Ram Baskey

Checked By

Parbati Mandi

Approved By



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SI. No.	Test Name	Test Result	TEST POUSE TESTERM STITEM LIMIT NATIONAL TEST POUSE THE TEST POUSE
SE 1 TOO THE TOO THE	THE	Passes the test	25 duble rubs
2 5 707	Dry film thickness	20.3 mils (515 micron)	16 mils
TEST HOUSE TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TEST HOUSE TO THE TES	Electrical Continuty Inspection	Passes the test (458 volts/mil)	min 100 volts/mil, No holiday
4	Adhesion	1345.95 psi (9.28 Mpa)	800 psi minimum
5 ATOMAL TES	Cathodic	7.5 mm	10mm max

Tested By

Sona Ram Baskey

Checked By

Parbati Mandi

Approved By





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SI. No.

Test Name

Test Result

Limit

0

Dielectric Strength

Passes the test (453.6 volt/mil)

250 volt/mil min

7

immersion and vapour phase 30 days, Delonised water Satisfactory,no blistering,peeling or detachment of coated film from substrate was observed.

Shall pass

8

Immersion and vapour phase 30 days, Sulphuric Acid 1% by weight

Satisfactory,no blistering,peeling or detachment of coated film from substrate was observed.

Shall pass

9

immersion and vapour phase 30 days, Sodium Hydroxide 1% by weight

Satisfactory,no blistering,peeling or detachment of coated film from substrate was observed.

Shall pass

Tested By

Sona Ram Baskey

Checked By

Parbati Mandi

Approved By

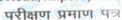




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SI. No.

Test Name

Test Result

Limit

टि पणी

Note

In respect of test carried out sample meets the requirement of AWWA C210-15

केफियत Remarks Specification for Liquid- Epoxy Coatings and linings for Steel Water Pipe and Fittings.

Tested By

Sona Ram Baskey

Checked By

Prondi Parbati Mandi

Scientist- B (Chemical)

Approved By

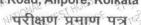




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25/02/2020

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5

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700032

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व्यावद्वत प्रणाली का पहचान Method(s) used for Test

नमुना प्रकिया जहीं प्रासंगिक हों Sampling Procedure where relevant NIL

00334/NTH(ER)/CH(P)/19/12/2019

Solvent less Food Grade Epoxy
Brand name - CORROPOXY-FGE400,
Mfg by: M/s Corro Protection Engineering.

Sample received in a tin (Base-01X01 lt) & a plastic (Hardener-01X500 ml) container, described as Solvent less Food Grade Epoxy (Base & Hardener) Brand name - CORROPOXY-FGE400, Mfg by: M/s Corro Protection Engineering.

IS:16676-2017

17/12/2019

From: 23/12/2019

To: 21/02/2020

On the lines of IS:16676-2017

Sample is prepared by mixing Base and Hardener in the ratio of 3:1 by volume.

Tested By

Ailton Baidy

Milton Baidya

Checked By

Parbati Mandi Scientist- B (Chemical) Approved By

Dr. Anath Bandhu Mondal





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Sovernment of India THEOT STEET NATIONAL TEST HOUSE राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)

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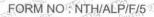
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NTH(ER)/CH(P)/2019/003	Date of Issue 25/02/2020	Code No.005 Pag 1576568173368	Test And Con Fages Tonge Trest
TAN TENER TREET	जारी होने की Date of Esue 25/02/2020 Test Name	TOWN TEST HOUSE TREATED IN THE RESULT OUSE TREAT	THRETT WATCHER TEST HOUSE THE
SI. No.	ARTION Test Name	Test Result OUSE TEST HOUSE TEST HOUSE TEST	TETRATI STEET LIMITAL TEST HOUSE TO OTTEN STEET NATIONAL TEST HOUSE THE THOUSE TO NATIONAL TEST HOUSE
1 र्भित प्राप्ति अस्ति। • १र्भित प्राप्तिमा अस्ति।	Colour	That of Red Oxide	TO THE THOUSE THE THOUSE THOUS
	161 1 180 WILLIAM	TESTA ASSERTA SULLA MULIONAL TEST HOUSE TONIA ASSERTA SULLA MULIONAL TEST HOUSE TONIA ASSERTA	shall pass the test
2	Electrical insulation (holidays)	Passes the test.(Pass upto 10 KV for 1.1 mm paint thickness.)	E TITE OF THE THEFT MATIONAL TEST
			HONZE LIEGIS LILIBAN ZILEN WYLIONAT LE DOGE LIEGIS LILIBAN ZILEN WYLIONAT LE DE LIEGIS LILIBAN
3	Abrasion Resistance	109 mg,(CS-10/1000gm/1000cycle)	125mg Max 117 117 117 117 117 117 117 117 117 11
		EZ HOUZE LEGITA MATERIA MELLA MANONIN IN	그 마음이 얼마나 아니는 그 얼마나 그 그래요? 그는 그 아이들은
4	Recoating properties	Satisfactory	TEST TOUSE TREET THEREIN THEN WANT
	The state of the s	the result of the sector results are the sector results and the sector results are the sector results are the sector results and the sector results are the sect	
5	Cathodic	3 mm	6 mm max

Tested By

Milton Baidya SA(Chemical) **Checked By**

Parbati Mandi Scientist- B (Chemical) Approved By





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Date of Issue 25/02/2020

कोड नं Code No 1576568173368

SI. No.

Test Name

Test Result

Thickness, dry film,

558 microns

Adhesion test-Tape

Adhesion test-Pull

9.9 MPa

Min. 5 MPa

9

Immersion and vapour phase, 30 days a) De-ionised water pass.

Satisfactory, No blistering, Peeling, or disbondment of coated film from detaching of coated film from the substrate was observed.

No blistering, peeling or

10

Immersion and vapour phase,30 days b) Sulphuric acid pass 1 percent by weight.

Satisfactory, No blistering, Peeling, or disbondment of coated film from the substrate was observed.

No blistering, peeling or detaching of coated film from

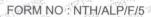
Tested By

Milton Baidya

SA(Chemical)

Checked By

Parbati Mandi Scientist- B (Chemical) Approved By





Government of India

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SI. No.	Test Name	Test Result	TITIVE TO STEEL LIMIT ON TEST HOUSE
11	Immersion and vapour phase,30 days c) Sodium Hydroxide pass 1 percent by weight	Satisfactory, No blistering, Peeling, or disbondment of coated film from the substrate was observed.	No blistering, peeling or detaching of coated film from substrate
12	Solvent Rub Test	Satisfactory (3.4% thickness reduction obtained.)	Max.Thickness reduction 25 percent
13	Drinking water test	Vide Annexure-i	TES SOSE ASTA CHEMICALISM SOSI CONTRACTOR SOSE ASTA CHEMICALISM SOSIA CONTRACTOR SOSIA STATE
14	Condition	Satisfactory, as the material is free from lumps, skins and becomes homogeneous on stirring	shall be free from lumps, skins and shall
		o status de la como de la como alca de la como	

Satisfactory

Tested By

Milton Baidya

Checked By

Parbati Mandi

Approved By



Government of India

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NTH(ER)/CH(P)/2019/00334

25/02/2020

1576568173368

SI. No.

Test Name

Test Result

Consistency

Satisfactory, as stirring using mechanical device/power stirrer easily produces a smooth uniform paint suitable for application by appropriate method Shall pass the test

टि पणी

Note

केफियत Remarks In respect of tests carried out the sample meets the requirements of IS 16676-2017, specification for Solventless Liquid Epoxy System for Application on Interior and Exterior Surfaces of Steel Water Pipeline.

Tested By

Milton Baidya

Checked By

Parbati Mandi

Approved By



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25/02/2020

1576568173368

Annexure-I

Test Results

S.No	Tests	Results	Limit
1	pH (At 26.5 Deg C)	6.86	6.5-8.5
2	Turbidity, NTU	0.19	1
3	Total hardness (As CaCO ₃), mg/L	15.7	200
4	Chloride (As CI), mg/L	6.5	250
5	Nitrate (As NO ₃), mg/L	0.5	45
6	Iron (As Fe), mg/L	0.09	0.3
7	Arsenic (As As), mg/L	Below 0.005	0.05
8	Fluoride (As F), mg/L	Below 0.01	1
9	Odour	Agreeable	Agreeable
10	Taste	Agreeable	Agreeable
11	Total Coliform (CFU/100ml)	Absent	Absent
12	Faecal Streptococci (CFU/100ml)	Absent	Absent

Tested by

Checked by

Approved by

Milton Baidya SA (Chemical)

Parbati Mandi Scientist - SB (Chemical)



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राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)

National Test House (ER)

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email:nthkol-wb@nic.in





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INTERIM/FINAL REPORT

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Date of Issue 01/11/2019

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Date: 29/07/2019

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00247/NTH(ER)/CH(P)/06/08/2019

CORROTHANE-PU1000

One metal container marked as "Polyurethane coatings (Base) corrothane PU1000" and another plastic container marked as "Polyurethane coatings (hardener), Corrothane PU1000" were received. The mixing ratio was mentioned on each container as 3:1 by volume. Mfg by M/s Corro protection Engineering.

AWWA-C-222-2018

05/08/2019

From: 27/08/2019

To:

30/10/2019

On the lines of AWWA-C-222-2018

The sample was prepared by mixing base and hardener in the ratio of 3:1 by volume.

Tested By

Debanjana Mukherjee SA(Chemical)

Checked By

Pundi Parbati Mandi

Scientist- B (Chemical)

Approved By





National Test House (Eastern Region)

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SI. No.	Test Name	Test Result	Limit
1	Flexibility	Satisfactory. No cracking or delamination was observed.	No cracking and delamination
2	Impact Resistanse	9.81 N-m	8.5 N-m minimum
3 ST HOUSE DUAL TEST HOUSE TOWN TEST HOUSE TOWN TEST HOUSE	Abrasion Resistance, CS17, 1000 rev, 1kg	98 mg	100mg loss maximum
4 OHA TEST H	Electrical Inspection	No holiday upto 300 volt/mil.	No holiday
5	Hardness Shore D	69	Minimum 65

Tested By Muhoyee

Debanjana Mukherjee

SA(Chemical)

Checked By

Porondi Parbati Mandi

Scientist- B (Chemical)

Approved By



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FORM NO: NTH/ALP/F/5

NTH(ER)/CH	H(P)/2019/00247A
SI. No.	

Test Name

Test Result

1565000443507

Limit

Dielectric Strength

339 V/mil.

250 V/mil minimum

Adhesion Pull off to steel

2030

1500 psi min to steel

Dry film thickness

751 micron.

635 microns minimum

Appearence

Smooth & uniform.

Smooth and uniform

Chemical Resistance (30% NaCI)

Satisfactory. The change in height, width and weight is within 5% of initial value. No blistering, cracking, softening or any other forms of deterioration was observed.

Maximum 5% change in mass, length, width after 30days immersion

Tested By

Milwije Debanjana Mukherjee

SA(Chemical)

Checked By

Parbati Mandi

Scientist- B (Chemical)

Approved By





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INTERIM/FINAL REPORT

SI. No.

Test Name

Test Result

Limit

11

Chemical Resistance (Diesel) Satisfactory. The change in height, width and weight is within 5% of initial value. No blistering, cracking, softening or any other forms of deterioration was observed.

Maximum 5% change in mass, length, width after 30days immersion

12

Chemical Resistance (10% H2SO4) Satisfactory. The change in height, width and weight is within 5% of initial value. No blistering, cracking, softening or any other forms of deterioration was observed.

Maximum 5% change in mass, length, width after 30days immersion

टि पणी Note Cathodic disbondment, Water Absorption & Chemical Resistance (30% NaOH) will report after completion of test.

कैफियत Remarks In respect of tests carried out the sample meets the requirements of AWWA C222-18 specification for Polyurethane coatings and linings for steel water pipe and fittings.

Tested By

Debanjana Mukherjee

SA(Chemical)

Checked By

Parbati Mandi

Scientist- B (Chemical)

Approved By

Dr. Anath Bandhu Mondal



सत्यमेव जयते

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Date of Issue 01/11/2019

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पुष्ट Page 1564999637403

पष्ठों की संख्वा No of Pages

Date: 29/07/2019

जिसे जारी करना है

Issued To.

पता

A ddress

CORRO PROTECTION ENGINEERING

107/B, Baghajatin, P.O. Jadavpur, Kolkata 700032

ग्राहक का सन्दर्भ सं एवं दिनांक Customer's Ref. No.

पंजिका सं एवं दिनांक Register No & Date

परीक्षण सामग्री का जिवरण Description of Test tem

परीक्षण सामग्री का पहचान Identification of Test Item

नम्ना का विशिष्टि (यदि हों) Product Specification (Flamy)

नम्ना प्राप्ति की तिथि Date of Receipt of the Test Item

कार्य सम्पादन की तिथि Date(s) of Performance of Tests

व्यावद्भत प्रणाली का पहचान Method(s) used for Test

नमुना प्रकिया जहाँ प्रासंगिक हीं Sampling Procedure where relevant NIL

00248/NTH(ER)/CH(P)/06/08/2019

CORROTHANE - PU 1000.

Sample received in steel container(Base)& Plastic container (Hardner) having name corrothane - PU 1000, Mfg By: M/s. Corro Protection Engineering.

IS:16719-2018.

05/08/2019

From: 27/08/2019

To:

30/10/2019

On the lines of IS 16719:2018

Sample was prepared by mixing base & hardener in the ratio of 3:1 by volume.

Tested By

Slondal

Subhashree Mondal SA(Chemical)

Checked By

Pmondi

Parbati Mandi Scientist- B (Chemical) Approved By

Dr. Anath Bandhu Mondal Scientist D /Ch



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Test	Name

Test Result

Limit

- 1		
- 1		

SI. No.

Application Properties Satisfactory.

Shall pass the test

2

Recoating Properties Satisfactory. For solvent rub test loss of DFT is 7.5%.

Shall pass the test

3

Consistency

Smooth & uniform.

-Smooth & Uniform

4

Lead Restriction

2.8 ppm.

90 ppm Max

-

Drying Time at 50 deg C Tack free

Less than 1.5 hrs.

1.5 hrs max

Tested By

Subhashree Mondal

Checked By

Parbati Mandi

Approved By



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5

SI. No.	Test Name	Test Result	Limit
6	Thickness, Dry Film	800 micron.	Internal 500 micron external 700 micron minimum
7	Electrical Insulation (Holiday)	Satisfactory. Passes the test.	Shall Passes the test
8	Adhesion Tape	Satisfactory. Passes the test.	Shall pass the test
9 ATTOMATES	Adhesion Pull off	13 MPa.	5.5 MPa Min
10	Immersion Vapour phase 30 days, Deionised water	Satisfactory. No blistering, peeling or detaching of coated film from substrate was observed.	No Blistering Peeling or detaching of coated film from substrate

Tested By

Slondal
Subhashree Mondal

SA(Chemical)

Checked By

Parbati Mand

Parbati Mandi

Approved By

Dr. Anath Bandhu Mondal



FORM NO: NTH/ALP/F/5



भारत सरकार Government of India

राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)

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SI. No.	Test Name	Test Result		Limit
11	Immersion Vapour phase 30 days, 1% H2SO4 By wt	Satisfactory. No blistering, pe detaching of coated film f substrate was observed	rom	No Blistering Peeling or detaching of coated film fro substrate
12	Immersion Vapour phase 30 days, 1% NaOH By wt	Satisfactory. No blistering, pe detaching of coated film t substrate was observe	rom	No Blistering Peeling or detaching of coated film fro substrate
13	Abrasion Resistance,	99 mg loss. (CS 17, 1000 cyc weight.)	ele, 1 kg	100mg

68

1 kg-m.

Tested By

Subhashree Mondal

Hardness Shore D

Impact Resistance

Checked By

Parbati Mandi Scientist- B (Chemical) Approved By

Dr. Anath Bandhu Mondal

65 min

0.46 kg M



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Government of India

राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)

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FORM NO: NTH/ALP/F/5

SI. No.

Test Name

Test Result

Limit

16

Water Absorption % by wt

1.3

3.0 max

17

Flexibility (180 deg 6.25mm)

Satisfactory. No cracking or delamination was observed. No cracking & delamination

टि पणी Note

Cathodic disbondment test will be reported after completion of test.

केफियत Remarks In respect of tests carried out, the sample meets the requirements of IS 16719:2018 specification for Polyurethane Coatings for the interior and exterior of steel pipe and

Tested By

Sllondal Subhashree Mondal

SA(Chomical)

Checked By

Parbati Mandi

Scientist- B (Chemical)

Approved By