

تاریخ: ۱۴۰۴/۰۶/۳۰

شماره: ۱۴۰۴۰۶-۰۴۷۴۴

پیوست: ۱۲ برگ

سرکار خانم مهندس سحرالسادات موسوی

قائم مقام مدیر عامل و مدیر فروش محترم شرکت نانو رنگها و پوششهای اقیانوس آبی

موضوع: گزارش آزمون (بخش اول)

با درود و سلام

احتراما، بازگشت به نامه ارسالی آن شرکت محترم به شماره ۱۴۰۴/BL/۴۲۷ مورخ ۱۴۰۴/۰۳/۱۱، گزارش آزمونهای درخواستی بر روی نمونه پوشش اپوکسی آمین-آداکت بدون حلال در تماس با آب آشامیدنی بر اساس استاندارد (AWWA C 210 ver 2024) در دوازده برگ پیوست حضورتان اعلام می گردد.

قابل ذکر است، از آنجا که نمونه برداری توسط بازرس مترا صورت نگرفته است، لذا نتایج پیوست تنها در خصوص نمونه ارسالی معتبر بوده و قابل تعمیم به کل محموله نمی باشد.

*توضیح ۱: بر اساس جداول پیوست، کلیه نتایج با الزامات استاندارد (AWWA C 210 ver 2024) مطابقت دارد.

*توضیح ۲: گزارش آزمون بر اساس استاندارد BS 6920 (Ver 2014) پس از اتمام کلیه بندها، متعاقباً اعلام خواهد شد.

اقدام کننده: آزمایشگاه / HKF

با احترام
مدیر عامل
علی بزرگی



Amirkabir Paint Research Institute
موسسه تحقیقاتی رنگ امیرکبیر - مترا
تلفاز: ۱۶۹۷۳

این گزارش بدون مهر موسسه فاقد اعتبار می باشد.

Reference No.: LS-140400168-1

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صفحه ۱ از ۱۳



Amirkabir Paint Research Institute – METRA

موسسه تحقیقاتی رنگ امیرکبیر – مترا

TEST REPORT

ANSI/AWWA C210 (2024); MECHANICAL AND CHEMICAL RESISTIVITY OF INTERNAL COATING SYSTEM FOR STEEL STRUCTURES IN CONTACT WITH WATER

شرکت نانو رنگها و پوششهای اقیانوس آبی

Reference No: LS-140400168-1

Sample Name & Code:

Solvent Free Amine-Adduct Epoxy Coating /

Base: BL-8448,

Hardner: BLH-840



Date: September. 21, 2025

Amirkabir Paint Research Institute-METRA

موسسه تحقیقاتی رنگ امیرکبیر – مترا

تهران، بلوار مرزداران، خیابان ابراهیمی، برج تجاری اداری الوند، طبقه ۱۲، واحد ۱۲۰۵، کدپستی: ۱۴۶۳۷۳۸۸۹۳، تلفن: ۰۲۱-۸۸۶۶۰۱۰۱، فکس: ۰۲۱-۸۸۶۶۲۷۲۱ +

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All of the test has been done according to ANSI/AWWA C210:2024; Standard for Liquid-Epoxy Coatings and Linings for Steel Water Pipe and Fittings

Test Results according to AWWA C210 Standard,

Holiday Detection	
Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی
Material Manufacturer, Name & Code (1)	Blue Ocean Nano Paint & Coating Co. Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840
Test Date	1404/04/22
Test Method	NACE SP0188
Test Device & Code	Holiday detector / 1612
Specimen(2)	Substrate: Blasted Steel Panel
	Substrate Dimension (mm): 150 × 75 & 150 × 150
	Nominal Dry Film Thickness (μm) : 480-550
Lab. Conditions	Temp.: 23±2(°C), R.H.: 35±5(%)
Number of Runs	10
Results	
Observation	No Holidays
Acceptance Criteria	No Holidays
(1): Material Manufacturer, Name & Code is reported based on customer documents and can labels. (2): Specimen preparation was done by Metra Lab according to customer documents.	

Cure Test	
Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی
Material Manufacturer, Name & Code ⁽¹⁾	Blue Ocean Nano Paint & Coating Co. Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840
Test Date	1404/04/22
Test Method	ASTM D5402
Test Device & Code	Holiday detector / 1612
Reagent	Methyl Ethyl Ketone
Specimen ⁽²⁾	Substrate: Blasted Steel Panel
	Substrate Dimension (mm) : 150 × 75 × 2
	Nominal Dry Film Thickness (μm) : 430-480
Lab. Conditions	Temp.: 23±2(°C), R.H : 35±5(%)
Number of Runs	2
Results	
Observation	No Effects on Clothes
Electrical Continuity	Pass
Acceptance Criteria	No Effects on Clothes
(1): Material Manufacturer, Name & Code is reported based on customer documents and can labels.	
(2): Specimen preparation was done by Metra Lab according to customer documents.	

Adhesion (Pull-Off)			
Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی		
Material Manufacturer, Name & Code ⁽¹⁾	Blue Ocean Nano Paint & Coating Co.		
	Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840		
Test Date	1404/06/05		
Test Method	ASTM D4541		
Test Device & Code	Self-Alignment Hydraulic Pull-Off Tester / 1744		
Specimen ⁽²⁾	Sand Blasted Steel Plates: (200*200*5) mm		
	DFT (μm)~550-600		
Dolly Diameter(mm)	20		
Type of Adhesive	2 K Epoxy(Araldite)		
Test Temp.	23±2(°C)		
Lab. Conditions	Temp.: 23±2(°C), R.H: 35±5(%)		
Number of Runs	6		
Results			
Row	Adhesion Strength (MPa)	Mean	Nature & Location of Failure
1	12.41	14.34	%100 Adhesion Failure between Dolly & Adhesive
2	13.19		%50 Adhesion Failure between Substrate & Coating %50 Adhesion Failure between Dolly & Adhesive
3	14.48		%50 Adhesion Failure between Substrate & Coating %50 Adhesion Failure between Dolly & Adhesive
4	15.19		%70 Adhesion Failure between Substrate & Coating %30 Adhesion Failure between Dolly & Adhesive
5	15.25		%30 Adhesion Failure between Substrate & Coating %70 Adhesion Failure between Dolly & Adhesive
6	15.56		%20 Adhesion Failure between Substrate & Coating %80 Adhesion Failure between Dolly & Adhesive
Acceptance Criteria			min: 10.3 MPa
(1): Material Manufacturer, Name & Code is reported based on customer documents and can labels.			
(2): Specimen preparation was done by Metra Lab according to customer documents.			

Immersion Chemical Resistivity

Immersion Test in Deionized Water	
Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی
Material Manufacturer, Name & Code (1)	Blue Ocean Nano Paint & Coating Co. Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840
Test Date	1404/06/05
Test Method	AWWA C210
Specimen (2)	Substrate: Blasted Steel Panel Substrate Dimension (mm) : 150 × 75 × 2 Nominal Dry Film Thickness (μm) : 500-550
Test Duration	30 days
Liquid reagent for immersion	Deionized Water
Liquid reagent temperature(°C)	24 ± 1
Lab. Conditions	Temp.: 23±2(°C), R.H : 35±5(%)
Number of Runs	2
Results	
Observations after Immersion Test	
Blistering	No Blistering was Observed
Peeling or Disbonding	No Peeling or Disbonding was Observed
Other Observation	Nothing was Observed
Acceptance Criteria	No Blistering, Peeling or Disbondment
(1): Material Manufacturer, Name & Code is reported based on customer documents and can labels.	
(2): Specimen preparation was done by Metra Lab according to customer documents.	

Immersion Test in Sulfuric Acid

Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی
Material Manufacturer, Name & Code ⁽¹⁾	Blue Ocean Nano Paint & Coating Co. Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840
Test Date	1404/06/05
Test Method	AWWA C210
Specimen ⁽²⁾	Substrate: Blasted Steel Panel
	Substrate Dimension (mm) : 150 × 75 × 2
	Nominal Dry Film Thickness (μm) : 500-530
Test Duration	30 days
Liquid reagent for immersion	Sulfuric Acid 1% by Weight
Liquid reagent temperature (°C)	24 ± 1
Lab. Conditions	Temp.: 23±2(°C), R.H : 35±5(%)
Number of Runs	2
Results	
Observations after Immersion Test	
Blistering	No Blistering was Observed
Peeling or Disbonding	No Peeling or Disbonding was Observed
Other Observation	Nothing was Observed
Acceptance Criteria	No Blistering, Peeling or Disbondment
(1): Material Manufacturer, Name & Code is reported based on customer documents and can labels.	
(2): Specimen preparation was done by Metra Lab according to customer documents.	

Immersion Test in Sodium Hydroxide	
Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی
Material Manufacturer, Name & Code (1)	Blue Ocean Nano Paint & Coating Co. Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840
Test Date	1404/06/05
Test Method	AWWA C210
Specimen (2)	Substrate: Blasted Steel Panel Substrate Dimension (mm) : 150 × 75 × 2 Nominal Dry Film Thickness (μm) : 480-550
Test Duration	30 days
Liquid reagent for immersion	Sodium hydroxide 1% by Weight
Liquid reagent temperature(°C)	24 ± 1
Lab. Conditions	Temp.: 23±2(°C), R.H : 35±5(%)
Number of Runs	2
Results	
Observations after Immersion Test	
Blistering	No Blistering was Observed
Peeling or Disbonding	No Peeling or Disbonding was Observed
Other Observation	Nothing was Observed
Acceptance Criteria	No Blistering, Peeling or Disbondment
(1): Material Manufacturer, Name & Code is reported based on customer documents and can labels.	
(2): Specimen preparation was done by Metra Lab according to customer documents.	

Cathodic Disbondment	
Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی
Material Manufacturer, Name & Code (1)	Blue Ocean Nano Paint & Coating Co.
	Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840
Test Duration	30 Days (1404/05/06 - 1404/06/05)
Test Method	ASTM G8 (Method A)
Test Devices	Plastic Tank, Mg Anode & Calomel Electrode
Specimen (2)	Substrate: Blasted Steel Panel
	Substrate Dimension (mm) : 200 × 200 × 2
	Nominal Dry Film Thickness (μm) : 450-520
Original Holiday Diameter (mm)	6.40
Electrolyte Temp. (°C)	24±1
Lab Conditions	Temp.: 23±2(°C), R.H : 35±5(%)
Number of Runs	3
Results	
Disbonding from Holiday, Radius (mm)	5.55
Acceptance Criteria, Radius (mm)	Max: 10.0
(1): Material Manufacturer, Name & Code is reported based on customer documents and can labels.	
(2): Specimen preparation was done by Metra Lab according to customer documents.	

Dielectric Strength	
Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی
Material Manufacturer, Name & Code ⁽¹⁾	Blue Ocean Nano Paint & Coating Co.
	Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840
Test Date	1404/06/11
Test Method	ASTM D149
Test Devices	AC Power Supply
Specimen ⁽²⁾	Free Film: 180 × 180
	Nominal Dry Film Thickness (μm) ~500
Lab Conditions	Temp.: 23±2(°C), R.H : 35±5(%)
Number of Runs	2
Results	
Dielectric Strength (kV/mm)	> 32
Acceptance Criteria (kV/mm)	min: 16.0
(1): Material Manufacturer, Name & Code is reported based on customer documents and can labels.	
(2): Specimen preparation was done by Metra Lab according to customer documents.	

Water Absorption

Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی
Material Manufacturer, Name & Code (1)	Blue Ocean Nano Paint & Coating Co. Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840
Test Date	1404/06/25
Test Method	ASTM D570
Test Duration	24 hours
Media	Distilled Water (23±1°C)
Specimen⁽¹⁾	Strip: (L:76.0, W:25.4, T:0.84) mm
Lab. Conditions	Temp.: 23±2(°C), R.H: 35±5(%)
Number of Runs	3
Results	
Average Water Absorbed (%)	0.42
Acceptance Criteria	Max: 2.0
(1): Material Manufacturer, Name / Code & Batch No. is reported based on customer documents.	
(2): Specimen Preparation was done by Metra Lab. based on standard documents.	

Water Vapor Transmissioin Rate

Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی
Material Manufacturer, Name & Code ⁽¹⁾	Blue Ocean Nano Paint & Coating Co.
	Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840
Test Date	1404/06/25
Test Method	ASTM E96
Test Duration	96 hours
Test Device & Code	Digital Humidity Cabinet / 1524
Specimen⁽¹⁾	Disc: (Dia: 50) mm
Lab. Conditions	Temp.: 23±2(°C), R.H: 35±5(%)
Number of Runs	2
Results	
Water Vapor Transmission Rate (g/h.m²)	0.03
Acceptance Criteria	Max: 0.08
(1): Material Manufacturer, Name / Code & Batch No. is reported based on customer documents.	
(2): Specimen Preparation was done by Metra Lab. based on standard documents.	

تاریخ: ۱۴۰۴/۰۷/۱۵

شماره: ۱۴۰۴۰۷-۰۵۲۳۲

پیوست: ۰۹ برگ

سرکار خانم مهندس سحر السادات موسوی

قائم مقام مدیر عامل و مدیر فروش محترم شرکت نانو رنگها و پوششهای اقیانوس آبی

موضوع: گزارش آزمون (بخش دوم-نهایی)

با درود و سلام

احتراما، بازگشت به نامه ارسالی آن شرکت محترم به شماره ۱۴۰۴/BL/۴۲۷ مورخ ۱۴۰۴/۰۳/۱۱، بخش دوم-نهایی گزارش آزمونهای درخواستی بر روی نمونه پوشش اپوکسی آمین-آداکت بدون حلال در تماس با آب آشامیدنی بر اساس استاندارد BS 6920 (Ver 2014) در نه برگ پیوست حضورتان اعلام می گردد. قابل ذکر است، از آنجا که نمونه برداری توسط بازرس مترا صورت نگرفته است، لذا نتایج پیوست تنها در خصوص نمونه ارسالی معتبر بوده و قابل تعمیم به کل محموله نمی باشد.

*توضیح ۱: بخش اول گزارش آزمون طی نامه به شماره ۱۴۰۴۰۶-۰۴۷۴۴ مورخ ۱۴۰۴/۰۶/۳۰ ارسال گردید.

*توضیح ۲: بر اساس جداول پیوست، نتایج کلیه آزمونهای انجام شده با الزامات استاندارد BS 6920 (Ver 2014)

مطابقت دارد.

اقدام کننده: آزمایشگاه / HKF

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Amirkabir Paint Research Institute
موسسه تحقیقاتی رنگ امیرکبیر - مترا
شماره ثبت: ۱۴۹۷۳

این گزارش بدون مهر موسسه فاقد اعتبار می باشد.

Reference No.: LS-140400168-2

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۱۲۰۶، کدپستی: ۱۴۶۳۷۳۸۸۹۱

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صفحه ۱ از ۱۰



Amirkabir Paint Research Institute – METRA

موسسه تحقیقاتی رنگ امیرکبیر – مترا

TEST REPORT

BS 6920 (2014); SUITABILITY OF NON-METALLIC PRODUCTS FOR USE IN CONTACT WITH WATER INTENDED FOR HUMAN CONSUMPTION WITH REGARD TO THEIR EFFECT ON THE QUALITY OF THE WATER.

شرکت نانو رنگها و پوششهای اقیانوس آبی

Reference No: LS-140400168-1

Sample Name & Code:

Solvent Free Amine-Adduct Epoxy Coating /

Base: BL-8448,

Hardner: BLH-840

Date: October. 7, 2025

Amirkabir Paint Research Institute-METRA

موسسه تحقیقاتی رنگ امیرکبیر – مترا

تهران، بلوار مرزداران، خیابان ابراهیمی، برج تجاری اداری الوند، طبقه ۱۲، واحد ۱۲۰۵، کدپستی: ۱۴۶۳۷۳۸۸۹۳، تلفن: ۸۸۳۷۶۰۱۰-۱۹ (۹۸ ۲۱)، فکس: ۸۸۵۶۲۷۲۱ (۹۸ ۲۱) +

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Amirkabir Paint Research Institute
موسسه تحقیقاتی رنگ امیرکبیر – مترا
شماره ثبت: ۱۳۹۷۳

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All of the test has been done according to BS 6920:2014; Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water.

Sample Specification

Description	
Customer Name	شرکت نانو رنگها و پوششهای اقیانوس آبی
Material Manufacturer/Supplier*	Blue Ocean Nano Paint & Coating Co.
Material Name & Code *	Solvent Free Amine-Adduct Epoxy Coating (RAL 9003) Base: BL-8448, Hardner: BLH-840
General composition of product & Code*	Polyamine Cured Epoxy Coating
Typical use of product	Coating
Reference standard	BS 6920
Surface area for test	14680 mm ²
Volume of test container	1 Liter

*توضیح: نام محصول و ماهیت رنگ با استناد به اطلاعات ارسالی از طرف شرکت نانو رنگها و پوششهای اقیانوس آبی گزارش شده است و آزمایشگاه مترا در این خصوص هیچ گونه مسئولیتی ندارد.
لازم به توضیح است، سیستم پوششی مذکور با آب شهر تهران مورد آزمون قرار گرفته و امکان تغییر در نتایج با تغییر آب وجود دارد که آزمایشگاه مترا در این خصوص هیچ گونه مسئولیتی را نمی پذیرد.

1. Coating System

Description	Mean Measured DFT
Epoxy Coating System	420-500 μm

2. Test Result Summary

Test Description	conformity
<i>Odour and flavour of water</i>	Pass
<i>Appearance of water</i>	Pass
<i>Growth of aquatic microorganisms</i>	Pass
<i>Extraction of substances may be of concern to public health</i>	Pass
<i>Extraction of metals</i>	Pass

Testing Results

4.1 Odour and flavour of water

Test description	
Test Methodology	BS 6920 section 2.2.1
Start Date of leaching	1404/05/20
Finish Date of leaching	1404/05/21
Number of panellist	3
Temperature of extraction	23±2°C

4.1.1 Odour Test

Extract	Odour descriptor
First & Final	Pass

4.1.2 Flavour test

Extract	Flavour descriptor
First & Final	Pass

♦ On the basis of these results the samples of this product referred to in this report have been found to comply with the requirements of BS 6920.

4.2 Appearance of water

Test description	
Test methodology	BS 6920 section 2.3
Start Date of leaching	1404/05/20
Finish Date of leaching	1404/05/21
Temperature of extraction	23±2°C

4.2.1 Colour test (mg/lit Pt)

Extract	Colour units		Colour Change
	Blank	Extract	
First & Final	<5	None	None

4.2.2 Turbidity test (Formazine Nephelometric Units)

Extract	FNU unit		Turbidity Change
	Blank	Extract	
First & Final	<0.5	0.17	None

♦ On the basis of these results the samples of this product referred to in this report have been found to comply with the requirements of BS 6920.

4.3 Growth of Microorganisms

Test description	
Test methodology	BS 6920 Section 2.4
Start Date of leaching	1404/05/27
Finish Date of leaching	1404/07/14
Temperature of Extraction	30±1°C

Mean dissolved oxygen difference, MDOD (mg/l O ₂)	
Test water	0.29
Observations At the End of the Test Following Item was Observed: Some Tiny Particles in Test water.	

♦ On the basis of these results the samples of this product referred to in this report have been found to comply with the requirements of BS 6920.

4.4 The extraction of substances that may be of concern to public health

Test Description	
Test methodology	BS 6920 Section 2.5
Start Date of leaching	1404/04/17
Finish Date of leaching	1404/04/18
Date of Growth finished	1404/04/25
Temperature of extraction	23±2°C
Cell line	VERO cell line of African green monkey kidney cells (ATCC number CCL 81)
Cell concentration in sample	1×10 ⁶
Positive control	Zinc sulphate Bt 19
Morphology	Confluent growth of elongated cells some round cells debris medium orange/pink

Cell Morphology	
Test Sample	Confluent growth of elongated cells some round cells debris medium orange/pink
Blank	Confluent growth of elongated cells some round cells debris medium orange/pink
Negative control	Confluent growth of elongated cells some round cells debris medium orange/pink
Positive control	All cells rounded and mainly still in suspension medium pink

♦ On the basis of these results the samples of this product referred to in this report have been found to comply with the requirements of BS 6920.

4.5 Extraction of metals

Test description	
Test methodology	BS 6920 Section 2.6
Start Date of leaching	1404/07/02
Finish Date of leaching	1404/07/03
Temperature of extraction	23±2°C

Metal	Method	MAC (µg/l)	RL (µg/l)	Blank (µg/l)	Sample 1 (µg/l)	Sample 2 (µg/l)
Aluminum	AAS	200	20	<10	<10	<10
Antimony	AAS	5	0.5	<1	<1	<1
Arsenic	AAS	10	1	<1	<1	<1
Boron	AAS	1000	100	<1	<1	<1
Cadmium	AAS	5	0.5	<1	<1	<1
Chromium	AAS	50	5	<1	<1	<1
Iron	AAS	200	20	50	61	54
Lead	AAS	10	1	<1	<1	<1
Manganese	AAS	50	5	<1	<1	<1
Mercury	AAS	1	0.1	<1	<1	<1
Nickel	AAS	20	2	<1	<1	<1
Selenium	AAS	10	1	<1	<1	<1

MAC: maximum admissible concentration (According to standard)

LOD: required limits of detection (According to standard)

AAS: Atomic Absorption Spectrometry

♦ On the basis of these results the samples of this product referred to in this report have been found to **comply** with the requirements of BS 6920.