

## اثر نانو مواد در رنگهای ضد خوردگی

دکتر لاله سید سعادت

مدیر فنی  
شرکت نانو آریسا پوشش



اسفندماه ۱۴۰۰

# History

- ❖ **“Nano Arisa Pooshesh”** is paint & coating’s company that produces industrial, architectural and automotive nano paints and coatings.
- ❖ The company is working under support of **Guilan Science & Technology Park (GSTP)**. It is one of the best and most pioneer companies in manufacturing nano materials and their applications in industrial nano paints and coatings.
- ❖ Nano Arisa has been chosen as an **industrial knowledge-based company** from the Science and Technology Department of the Iranian President's Office.

# Research and development (R & D):

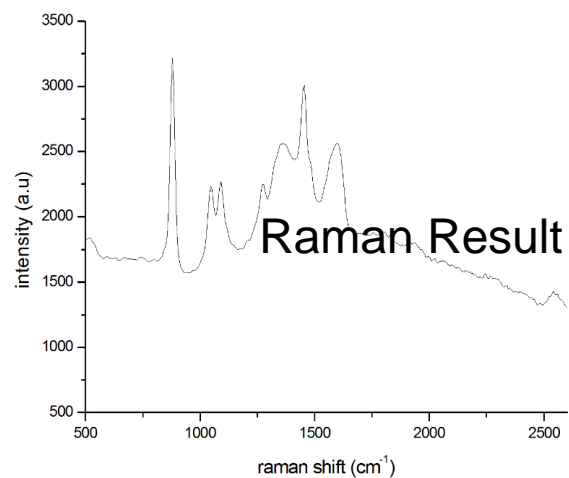
1

❖ Nano materials can give both coatings and paints improved qualities making them of increased hardness, scratch, corrosion resistance, mould and bacteria resistance, easy clean and so lasting much longer in between applications.

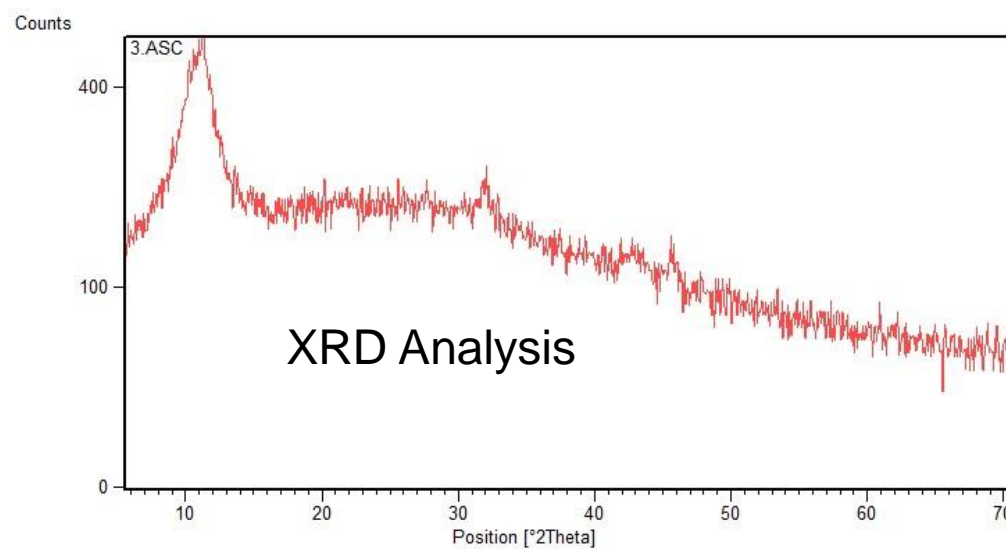
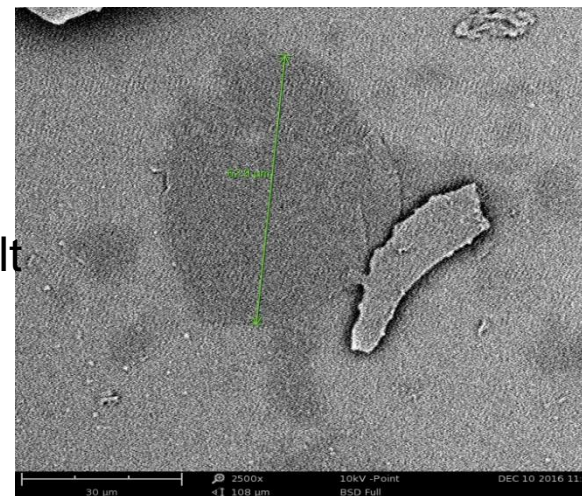
- ❖ Anti corrosion
- ❖ Anti static
- ❖ Anti bacterial
- ❖ Fire retardant
- ❖ Anti dust
- ❖ Anti UV



# Graphene Oxide



SEM Result



# Anti Corrosion Alkyd Nano Paint

- ❖ This product is particularly used for covering various surfaces in industrial and indoor applications. It is known as alkyd paint containing.
- ❖ Graphene oxide nano-sheets. The results of the cross-cut test indicate that adding graphene oxide has no negative influence on the adhesion of alkyd coating and its wet adhesion improves compatibly with ASTM D1654-16 standard test method.



# Anti Corrosion Alkyd Nano Paint

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# Anti Corrosion Epoxy Nano Paint

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- ❖ Nano Arisa anti-corrosion epoxy paint refers to the protection of all kind of metal surfaces from corroding in high-risk corrosive environments.
- ❖ Anti-corrosive paint acts as a barrier that inhibits contact between chemical compounds or corrosive materials with the metal housing.

# Anti Corrosion Epoxy Nano Paint

6

800 hr



1400 hr





# Anti Corrosion Epoxy Nano Paint

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- ❖ Zinc Phosphate Epoxy Nano Paint
- ❖ Coal Tar Nano Epoxy
- ❖ Zinc Rich Epoxy Nano Paint
- ❖ MIO Intermediate Epoxy Nano Paint
- ❖ Glass Flake Epoxy Nano Paint
- ❖ Anti-Acid Epoxy Nano Paint
- ❖ Nano Epoxy Floor Coating

# Anti Corrosion Epoxy Nano Paint



Nano Arisa anti-corrosion epoxy paint refers to the protection of all kind of metal surfaces from corroding in **high-risk corrosive environments.**

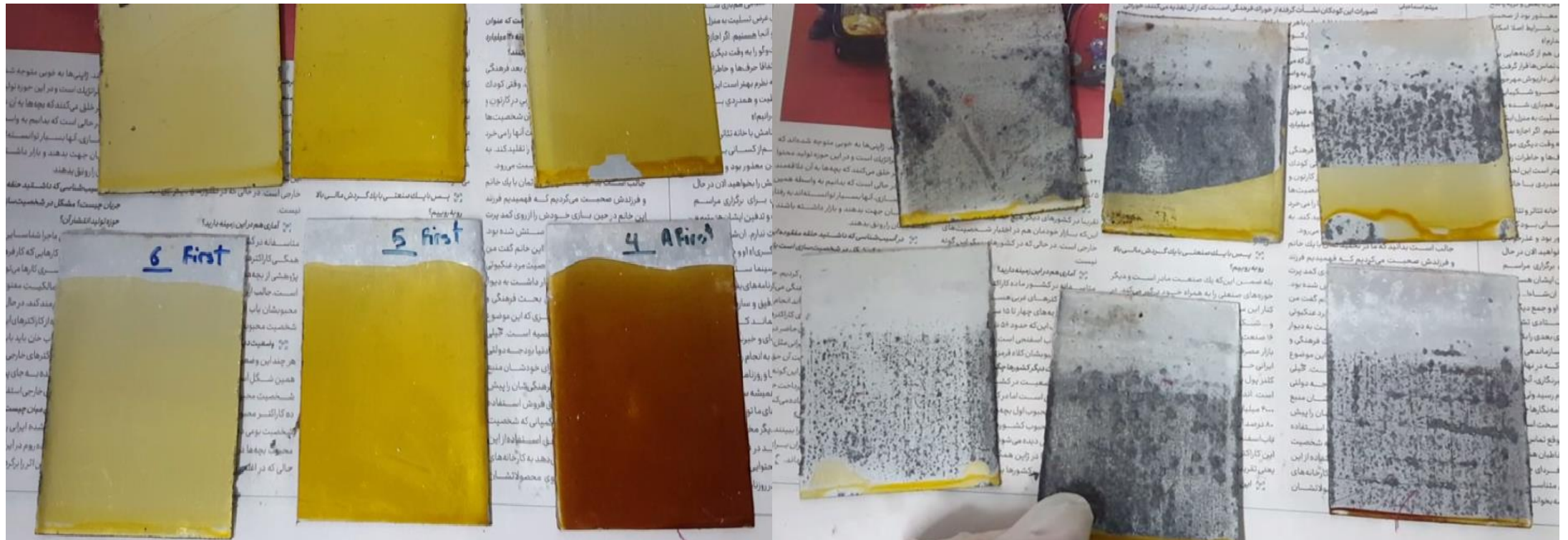
# One Component Anti Corrosion Epoxy Nano Paint

9

- ❖ Anti corrosion nano paint, containing of nano materials is used as a coating for any metallic and steel surfaces.
- ❖ Nano materials improve the protection ability of these coatings and they have excellent corrosion resistance.

# One Component Anti Corrosion Epoxy Nano Paint

10





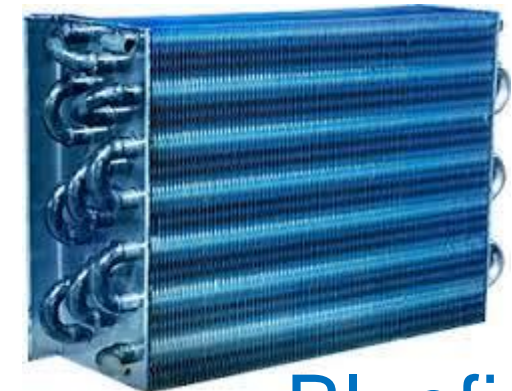
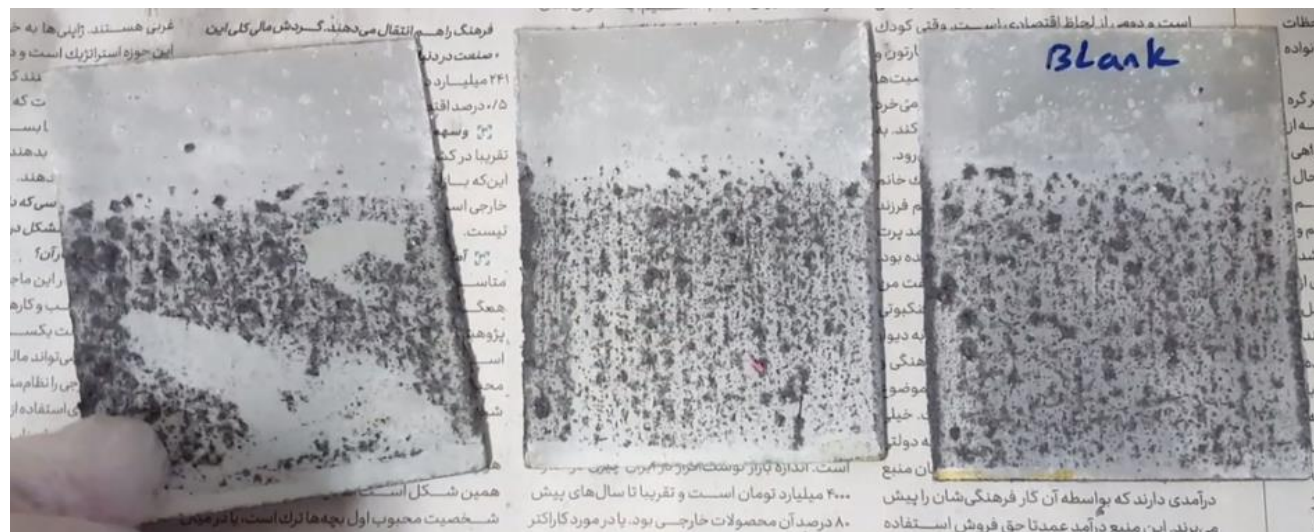
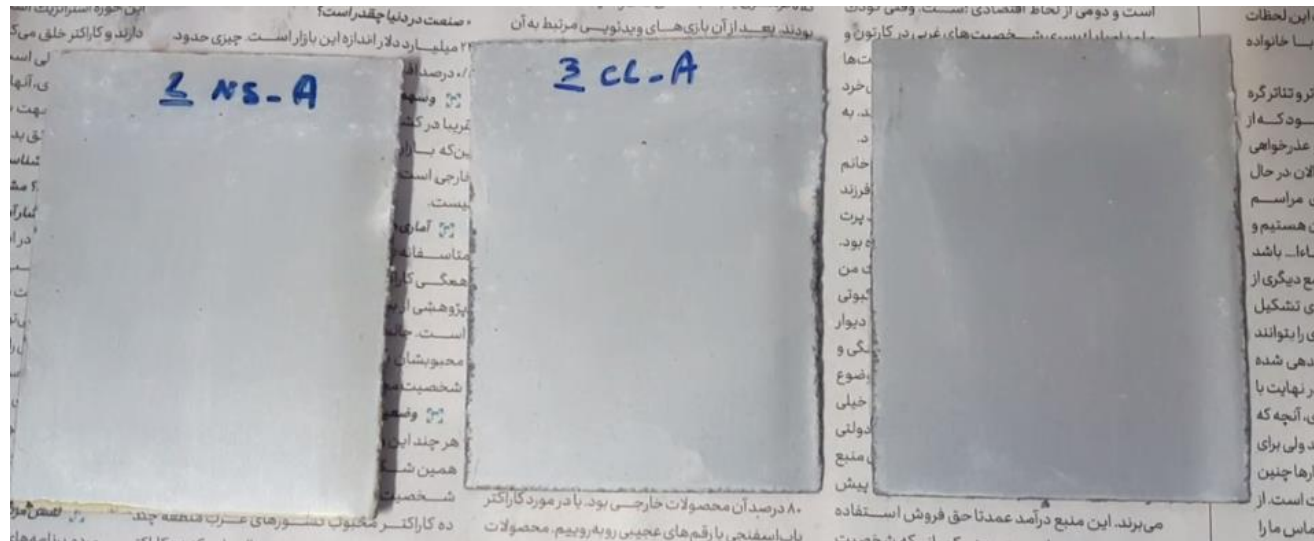
# LUMINA (Corrosion Resistant Nano Lacquer)

11

- High corrosion resistance for thicknesses of 8 to 10 microns
- More than 3500 hours of salt spray test compared to anodizing coatings( 1000 hours)
- Excellent adhesion to aluminum, cast iron and copper surfaces
- Suitable heat transfer for use in radiators of cars

# LUMINA (Corrosion Resistant Nano Lacquer)

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Bluefin

# AlCOTherm (Corrosion Resistant Nano paint)

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- High corrosion resistance
- More than 5000 hours of salt spray test
- Excellent adhesion to aluminum, cast iron and copper
- Suitable **heat transfer** for use in radiators of cars



# AlCOTherm (Corrosion Resistant Nano paint)

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# Fire Retardant Nano Paint

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- ❖ This product is a two-component fire retardant nano paint.
- ❖ Nano materials cause excellent fire and corrosion protection. Nano fire retardant coating containing of nano material is used for any metallic and steel surfaces and improve the protection ability of these coatings and they have excellent resistance against fire and corrosion. Moreover, this paint has antistatic properties.

# Fire Retardant Nano Paint

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**1000°C difference temperature  
between the outer and inner  
surfaces**



# Nano Polyurethane Paint

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- ❖ Nano materials cause excellent UV protection, adhesion and abrasion resistance. Nano polyurethane coating containing of anti UV nano materials is used as a top coat for any metallic and steel surfaces.
- ❖ Nano materials improve the protection ability of these polyurethane coatings and they have excellent resistance against UV.

# Nano Polyurethane Paint

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توسعه خدمات فناوری تا بازار

بسمه تعالی

شماره: ۳۱۳-۲۰۶۹۲  
تاریخ: ۹۹/۰۵/۱۳  
نقدار: پرومیت

جناب آقای شاهین آسان  
مدیرعامل محترم شرکت نانو آریسا پوشش

با سلام و احترام، به اطلاع می‌رساند، با توجه به بررسی انجام شده، محصول "پوشش پلی‌یورتان مقاوم در برابر اشعه UV حاوی نانوذرات" یا ضوابط فنی واحد ارزیابی محصولات مطابقت دارد. لذا به این محصول با کد ۹۸۲۶۸۹ از تاریخ ۹۹/۰۵/۱۱ به مدت یک سال "تأیید آزمایشی نانومقیاس" اعطا می‌گردد. این تأییدیه صرفاً به منظور بهرهمندی از خدمات حمایتی در راستای کمک به فرایند تجاری‌سازی صادر شده است و اعتبار دیگری ندارد.

عماد احمدوند  
مدیر عامل

توسعه خدمات  
فناوری تا بازار ایران

شماره ثبت: ۳۱۳۵۳



تهران - خیابان ستارخان - خیابان زحان شمالی - کوچه سیادت - پلاک ۶۵  
تلفن: ۶۲۱۰۴ | فکس: ۶۲۱۰۴۲۱۰ | کد پستی: ۱۷۵۶۱۴۴۷  
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www.tbtc.ir  
www.tnsc.ir  
www.patentoffice.ir

ارزیابی محصولات  
توسعه خدمات فناوری تا بازار  
گرمسهر حساسات  
کلون پتنت ایران



# Other Products

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- ❖ **Stoving Nano Paint**
- ❖ **Acrylic Nano Paint**
- ❖ **Anti Acid Nano Paint**
- ❖ **CEMENTA**
- ❖ **Nano Coil Coating**
- ❖ **Floor Coating**
- ❖ **Anti Static Nano Paint**
- ❖ **Anti Bacterial Coating**

# Achievements

  
Iran  
Nanotechnology  
initiative council

**Certificate  
of  
Compliance**

  
NanoScale Certificate

**NanoScale  
Certificate**

No: 312-17501

Hereby we certify that our applicant  
**Nano Arisa Pooshesh**

product:  
**Corrosion Resistance Epoxy Paint**

is approved as a nanotechnology product; according to the following standards:  
ISO/TS 18110 & ISIRI 12098  
and evaluation of technical files and test reports.

*This Certificate is only valid for the unique mentioned product, and does not encompass other products of company*

Issue date September 20, 2017	Expiration date September 19, 2018
----------------------------------	---------------------------------------

*The Period of certificate validity is extendable after annual inspection.*

**FILE CODE IN PRODUCT ASSESSMENT UNIT: 96038**

Dr. Hamed Afshari  
Chief Executive Officer  
Tech-Market Services Corridor

  
Dr. Reza Asadifard  
Director of industry and market workinggroup  
Iran Nanotechnology initiative council

Iran Nanotechnology initiative council  
Tech-Market Services Corridor  
Nanoproduct assessment unit  
No. 65, Siyadat Alley, North Zanjan Street, Satarkhan Avenue, Tehran  
Telfax: 02163104  
www.nanoproduct.ir



  
Iran  
Nanotechnology  
initiative council

**Certificate  
of  
Compliance**

  
NanoScale Certificate

**NanoScale  
Certificate**

No: 312-17502

Hereby we certify that our applicant  
**Nano Arisa Pooshesh**

product:  
**Corrosion Resistance Alkyd Paint**

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**FILE CODE IN PRODUCT ASSESSMENT UNIT: 96974**

Dr. Hamed Afshari  
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Tech-Market Services Corridor

  
Dr. Reza Asadifard  
Director of industry and market workinggroup  
Iran Nanotechnology initiative council

Iran Nanotechnology initiative council  
Tech-Market Services Corridor  
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No. 65, Siyadat Alley, North Zanjan Street, Satarkhan Avenue, Tehran  
Telfax: 02163104  
www.nanoproduct.ir



Two nano Certificates at the industrial scale from the Iran Nanotechnology Initiative Council



## راه های ارتباطی

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تلفن کارخانه

تلفن دفتر مرکزی

موبایل

واتس اپ

اینستاگرام

وبسایت

ایمیل





با سپاس از توجه شما



[www.nanoarisa.com](http://www.nanoarisa.com)