



NanoRip 
Doğa Dostu Hızlı Çözümler





**NANORIP HIGH TECHNOLOGY
AND PROTECTIVE PAINTS
CONSULTANCY**

Who are we?

We are an application-service company that has the ability to paint materials that are known to be unpaintable or have difficulties in painting.

We can paint all kinds of composites, aluminum, PVC, galvanized sheet, DKP, rusty surfaces, without primer, in the paint shop or on site; and the results will be factory quality.

Which Surfaces Can We Paint?

CRP Compact Laminate DKP Rusty Surfaces

Stainless Steel Glass Known Surfaces PVC

Aluminum Composite Galvanized Sheet

Product Features

Single Step and All Surface Protection System

- It is truly water-based and environmentally friendly.
- It meets all current VOC (Volatile Organic Compounds) directives and hazardous substances regulations of the European Union and the USA, completely and with much better values. Therefore, it is the painting technology of the future.
- Does not contain any toxic chemicals.
- It does not contain HAPs (Hazardous Air Pollutants) and POPs (Persistent Organic Pollutants). It is also suitable for CE and RoHS (Restriction of Hazardous Substance) use.
- There are versions that can be applied to any surface. (PVC, aluminum, galvanized, glass, wood, concrete etc.)
- It is waterproof but water vapor permeability is excellent.
- It is very easy to clean Graffiti, it does not damage the surface.
- Ultra-glossy (High Gloss), semi-matt or ultra-matt can be applied..



- It has the property of shrinking and expanding with the surface even in thermal shocks between -80°C and $+80^{\circ}\text{C}$ on applied surfaces.
- It can be used continuously at high temperatures up to 200°C and at low temperatures down to -80°C . If desired, there is also a version that can withstand temperatures as low as -170°C .
- It is available in real metallic and micaceous versions.
- There is no color limit.
- It is extremely easy to retouch and will not show.
- It has Anti-fungal, Anti-Bacterial and Anti-Mold features.
- It is not affected by UV rays. Its colorfastness is excellent.
 - It has antistatic feature.
 - PRIME TOP versions are applied directly on the rust without any action necessary.

Water based ASDT Series Products

- Due to the legal obligations brought by the USA, the European Community (main directives 1999/13/EC and 2004/42/EC) and other developed countries to the VOC (volatile organic substances) limits, the major technological and application developments in solvent-based paints and thinners are trying to overcome these problems with Solvent-based paints with high solid content, water-based paints and electrostatic paints.
- In addition to the applications limited by the oven sizes in electrostatic painting, this application can offer a solution in a very narrow area due to the high health risks of the second components in general and the serious warnings on this subject.
- Since 1987, the most advanced water-based paints known in the world have been produced by the Paint and Surface Protection Group.
- The need for high-performance water-based paints has been largely solved with acrylic modified polyurethane, ultra-fast oxygen-activated polyurethane, and hybrid paints.



- The performances of these water-based paints are not comparable to solvent-based paints and are higher in many aspects.
- Water-based rocket paints, aircraft and Radom paints, unprimed aluminum paints, PVC paints, galvanized paints, aircraft leading edge paints, prime ball paints applied directly on rust, military camouflage (ultra-matte UV / visible field / IRR-IRA / Radar Absorber RAC paints) have been produced for the first time in the world.
- Water-based paints are also approved for military use. Especially water-based Infra Red-IR paints, RAC (Radar Absorbing Coating), camouflage paints and EM paints have brought a wide range of solutions to the needs of the industry for military applications.
- As an alternative to solvent-based paints limited in the USA and the European Community, the Paint Group continues to produce firsts in the sector with water-based paint technology.

Product Groups

- Military Paints,
- Architectural Paints,
- photoluminescence,
- Metallic and Mica Paints,
- Antimicrobial Paints
(hospital, intensive care, etc.)
- Wood Paints,
- heat resistant paints,
- Phosphorescent Paints,
- Aerospace Paints
(Airplane, Radom, satellite, rocket etc.)
- Thermal Paints,
- Insulation Paints,
- Absorbing Paints(Camouflage and protection),
- Composite Paints,
- Aluminum Paints,
- PVC Paints,
- Galvanized Paints,
- Fireproof Paints,
- Paints Providing Non-Slip Surface,
- Solar Reflective Paints,



- 1999/13/ Ec Voc Directive
- 2004/42/Ec Voc Directive
- 2002/95/Ec Rohs Directive
- Epa-17 Law (Military / NATO)
- Sae / Astm Standards Instead of Mil Spec
- Ce applications
- Reach Project (Ab)
- HAPs Rules (Hazardous Air Pollutants)
- POPs Rules (Persistent Organic Pollutants)





Architectural Paints (Interior- Exterior):

- With 24,000 solid colors, 2000 metallics and thousands of patterning possibilities, every surface can be painted decoratively/harmoniously.
- General materials such as ceilings, plaster and wood are also easily painted, as paints breathe.
- There are many transparent and opaque versions thrown on glass.
- It is preferred in multi-story buildings due to fire safety.
- Colorfastness is excellent.
- There are ultra-matte and ultra-glossy versions.
- Dirt on the outer surfaces is cleaned by rain by itself. Surfaces can be washed or wiped. With its anti-graffiti features, it provides wide-featured applications to the user.



Hilton Aluminum Door Wood Painting



Wood Patterning



Hill Side



Semizer Stainless Steel Painting

Application Areas of Architectural Paints

- All kinds of composites used on the exterior of the building
 - Aluminum
 - Compact Laminate
 - CRP
 - Siding
 - PVC
 - Marble
 - Granite
 - Fibro-cement
- All kinds of materials with limited visual richness, produced from different materials such as all kinds of walls, concrete, panel radiators, air conditioners, glass, stainless steel used in the interior.



Hacı Başar Kozyatağı Wood Patterning



Hilton Aluminum Composite



Hillside Kozyatağı Aluminum Door Color Change



L'ist İstinye Compact Laminate

Aluminum Paints

Aluminum, PVC and Galvanized Paints:

- It has become possible to paint materials that were previously said to be (simply) unpaintable, on site or in the factory, without a primer.
- If desired, it is possible to give the materials a wooden pattern or any desired pattern without experiencing color (plain or metallic) and matt-gloss application problems.
- The product line is still the only water-based systems that has been the most successful in the world. It is still used in many developed countries.

Our Other Applications

Insulating Paints: Paints that provide electrical insulation that can prevent electric shocks up to 1000w and can be applied directly on panels and similar materials.

Conductive Paints: Paints that provide lossless heat transfer are paints that provide lossless electricity transfer.

Solar-Reflective Paints: These are paints that reflect the heat energy from the sun up to 75%. It saves energy in cooling costs.



PVC Painting the Hut with Wood



Aluminum Door



Aluminum Surface Mounted Fire

Military Paints

- All kinds of camouflage paints can be made with NATO Military Stock Numbers ultra-matte or ultra-glossy versions.
- Military and civil aircraft, military equipment, ammunition, rockets, weapons, jet and transport aircraft, military warehouses, buildings, radomes can be painted.
- First and only aircraft radome and rocket paints approved in the world.
- Turkish Air Force, Turkish Navy, Turkish Land Forces, NASA-Kennedy Space Center, Roketsan, MKE, Barış Elektronik, TUBITAK SAGE, Aselsan, Aqua Surface International – UK, Aquasurtech – USA, Aquasurtech – Canada, Aquasurtech – S. Africa , Aquasurtech – Y. Zealand, Dr. Siding – USA are some of the users.



Antimicrobial Paints (Nano silver Based)

- It has antimicrobial properties. This surface is truly antibacterial, anti-algae, anti-yeast, anti-viral and anti-fungal. It contains antimicrobial, antimould, antiviral KATON (Rohm and Haas-Italy/USA), PENTONIUM DD-50 (Pentagon Chemicals-England) and Nano Silverion, thanks to its wide antimicrobial spectrum, it still has the most effective structure known in the world. Especially thanks to its electrochemical reaction kinetics, very effective and broad-spectrum Nano Silverion kills microbes that touch the surface in a very short time. In addition, the surface is treated with all kinds of antimicrobial materials (Chlorhexidine Gluconate, Cetrimide, Hydrogen Peroxide, Quaternary Ammonium Compounds, Organic and Inorganic Chlorine Derivatives, Potassium Iodide, Amino Benzoic Acid Esters, Sodium Bicarbonate, Aldehydes, Alcohols, Antibiotics, disinfectants such as high concentration Nano Silverion). the surface can be wiped and the treatment will not damage the coating. In this way, all kinds of microbial growth on the surfaces of the rooms are prevented by not allowing the microbes to gain resistance since they can be wiped with all kinds of antimicrobials.

- Hospital, Operating Room, Intensive Care Rooms, School, Large and Intensive
- General Civil and Military Use Rooms
- They are truly breathing, anti-static, anti-microbial, anti-graffiti and dirt-repellent paints.
- Since the surface can be wiped with disinfectants, it provides a perfect hygienic environment.
- Painted sections can be put into service immediately due to its odorless nature.
- There are no toxic materials in the paints.



- Especially Ag/Ag+ nanotech (20 nm grain size Ag metal) based D45, D45-AMS and D100 dyes are very broad-spectrum antimould, antibacterial, antiviral, anti-fungal

It can be used for a very long time without the formation of microbial resistance, since it can be wiped off with all kinds of antimicrobial systems along with its properties.

- School classrooms, offices, shopping malls, wards, shelters, submarines etc. are typical examples for use.



References

- 1- Ankara Grand Maternity Hospital (Dr. Zekai Tahir Burak) / Operating Rooms, Premature Baby Rooms
- 2- Naval Forces Golcuk Military Hospital
- 3- Gulhane Medical Academy Hospitals
- 4- Çorum Osmaniye State Hospital
- 5- Keçiören Private Hospital
- 6- Acıbadem Private Hospital (Turkey's largest private sector hospital)
- 7- Manavgat State Hospital
- 8- Istanbul Memorial Hospital
- 9- Atatürk Hospital
- 10- O.Gazi University Hospitals



Historical Artifact and Restoration

- Since T145, T145-AMS, T170, T188 and T100 polymers consist of small spheres at the nanometer level and are produced in ultra-matte or high gloss, they can be applied as transparent or colored transparent directly to any surface (stone, marble, ceramic, plaster, special plaster, clay, brass, copper, etc.). zinc, lead, etc.) can be applied. Desired repairs can be made and protected with pattern and unlimited color kits. It is fully compatible with Nanorip surface cleaning technology.
- Currently, prestigious buildings and works of art in Turkey and the world are protected with these products.



Garden Furniture - Teak Furniture Cleaning

- Furniture and boat decks made of teak wood, which cannot be painted due to their structure, are cleaned from UV and environmental effects, and then coated with Quasar T145 transparent Teak protector to preserve their natural appearance for a long time.
- Ultra matte, matte, semi-matt, glossy and ultra-glossy versions are available.
- The product is hydrophobic. By repelling the liquids coming to the surface, it ensures that the surface maintains its original appearance for a long time.
- It has High resistance to UV, water and dilute acids.
- This product is also used to protect garden furniture such as eucalyptus, bamboo, aodire, iroko from external factors.



Water Based Nano Insulation Paint

- It is a nanotechnological and microtechnological acrylic modified polyurethane paint that can make heat and waterproof insulation.
- It is non-toxic, water-based and environmentally friendly.
- It can be used for cooling in summer and heating in winter.
- It can be applied to any surface.
- (Galvanized, aluminum, PVC, glass, marble, brick, concrete, wood, etc.)
- 0.75 mm made on aluminum. It has been proven that the surface temperature is reduced from 204 ° C to 70 ° C with the coating.
- It has three variants. The thermal insulation coefficient of each is different from each other.

Tip1 Isı yalıtım katsayısı = 0,017 w/ m.k

Tip2 Isı yalıtım katsayısı = 0,019 w/ m.k

Tip3 Isı yalıtım katsayısı = 0,022 w/ m.k

Advantages and Applications

- Provides thermal insulation, reduces heating and cooling costs.
- It reduces moisture formation. Prevents mold growth.
- It has corrosion prevention feature.
- IRR solar reflective/solar-reflective Quasar AMS-IRR paints are in perfect harmony with our paints.
- Provides 20%-40% energy saving.
- It is an Ideal pipe and boiler insulation material.
- It provides an ideal insulation in both industry and residences.
- It provides sound insulation in the applied areas.
- It is used in every region where there are cold and hot energy losses.

Other Applications

Insulating Paints: Paints that provide electrical insulation that can prevent electric shocks up to 1000w and can be applied directly on panels and similar materials.

Conductive Paints: Paints that provide lossless heat transfer are paints that provide lossless electricity transfer.

Solar-Reflective Paints: These are paints that reflect the heat energy from the sun up to 75%. It saves energy in cooling costs.

Multi-Purpose Elastic Putty: Our putties are used on wood, concrete surfaces, marble, airport runways and parking areas, crack and joint repair, plaster, fiber concrete, metal surfaces and similar applications.
It can also be used as a sealant due to its excellent adhesion.

Concrete Surface Protectors: It is used to protect concrete surfaces against hairline crack repair, parking areas, runway concrete (airports, industrial facilities) against corrosion (acid rain) and erosion (wind and friction).
Since the protective film is very thin, it does not cause slipping problems on the tracks.

Water Based Paint Removers

- Water-Based Paint Removers are single or two-component advanced water-based paint removers for removing any type of solvent (acrylic, polyurethane, polyester or epoxy, etc.) or water-based paint coatings/layers.
- Our Paint Removers (such as chlorinated solvents, petroleum derivatives, cyclohexanone, chromates, dimethyl formamide, acids, bases, methyl ethyl ketone/methyl isobutyl ketone/or ketones, ethanol/methanol/propanol and its isomers, butanol & isomers, any aldehydes etc.) do not contain any harmful or dangerous or prohibited chemicals.
- Paint removers; It does not contain HAPs (Hazardous Air Pollutants), POPs (Persistent Organic Pollutants) or any banned toxic chemicals.
- Paint removers also meet EC 552/2009, 2005/42/EC VOC (Volatile Organic Substances) and RoHs (Restriction of use of Hazardous Materials) directives.

Other Advantages:

- Eliminates the need and expenses of establishing a facility for hazardous waste processing, and the operating costs of places allocated for painting.
- NOx gases generated during paint removal are minimized.
- It reduces the frequency of washing.
- Due to its antistatic and hydrophilic properties, it keeps the surface clean for a longer time.
- It reduces energy costs. Coatings can be cleaned efficiently with mild detergent and hot water. Therefore, there is no need for surface washing with hazardous chemicals.
- Offers environmentally friendly solutions. All of the products comply with the European Union REACH (Registration, Evaluation, Authorization of Chemicals) legislation.
- Does not contain any of the prohibited products listed in EPA-17. There is no need for solvent use in degreasing, preparation, painting and cleaning processes.
- All of the components in the products do not contain harmful products based on California Proposition 65, Community Right to Know List, Genetic Toxicology Program, ACGIH TVL, EPA TSCA, OSHA PEL, SARA Sections 302 & 313.

Surface Preparation Solution (Deco)

Deco is formulated for cleaning all types of surfaces including aluminum, iron, steel, copper, PVC, GRP surfaces and also for removing any oil, dirt and carbon from the surface prior to the application of paints/coatings. Deco is an environmentally friendly material and is biodegradable (biodegradable) in nature. The product is a strong cleaner and degreaser that can be mixed with water in all proportions and can be applied with both cold and hot water. It is diluted 1/5 – 1/30 according to the degree of dirt on the surface.

Properties:

- Very fast oil removal
- Harmless to the ozone layer
- VOC free
- Non-toxic and non-corrosive
- Does not shine
- Odorless
- Low BOD/COD



Surface Anti-Slip Paints

- GEKOCOAT is a self-sand, water-based nano technology non-slip surface coating.
- It is a one-component product with an extremely high adhesion capacity, applied on ceramic, natural stone, concrete, fiberglass surfaces by making mechanical or acidic preliminary preparation.
- GEKOCOAT can be used around pools, kitchens, shower areas, building entrances, walking paths, ramps for the disabled, marine vehicles, etc., which become slippery when wet. It can be used in indoor or outdoor projects. The product is environmentally friendly and can be used easily in food facilities. With the advantage of being water-based, it is suitable for projects where fire hazards cannot be tolerated.
- Available GEKOCOAT colors are: Transparent, Yellow (RAL 1003), Blue (RAL 5015), Red (RAL 3001), Green (RAL 6032), Gray (RAL 7046), Black (RAL 9004)







Aluminum



38 Halk Bank Headquarters Before Painting the Door



Halk Bank Headquarters After Painting the Door



Hill side Toilet Door Before Application



Hill side Toilet Door After Application

Aluminum Composite





Hillside City After Application

Wood Surface Restoration



Semizer Law Firm Before Application



Semizer Law Firm After Application



Semizer Law Firm Before
Column Staining



Semizer Law Firm After
Column Staining

Compact Laminate



L'ist İstinye Project Exterior Compact Laminate Painting

PVC Painting



Panel Radiator



Panel Radiator Painting

Rusty Surface Paints





Paint Remover



Aluminum Painting



Surface Cleaning Systems





Painting Pebbles





Zorlu Center Initial Form of Pebbles



Zorlu Center Pebbles Sample Work





