



ATLAS

UV BOYA VERNİK LAK
MÜREKKEP

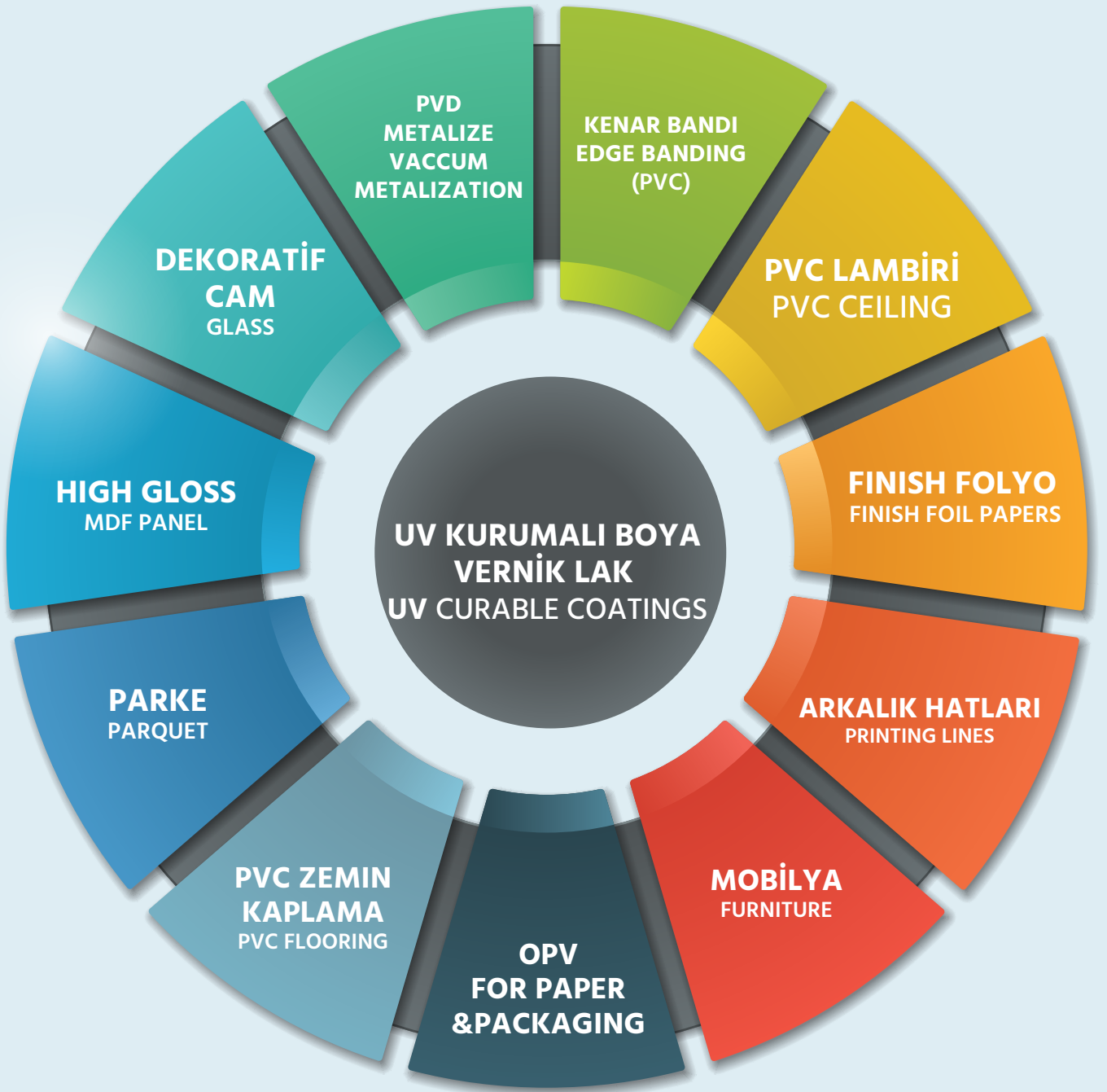
UV Coatings

www.atlasuvcoatings.com

SELECT THE SECTOR YOU ARE INTERESTED IN

ATLAS UV COATINGS

UV Curable Paint, Varnish, Lacquer and Ink



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ABOUT US

With our 15 years of technical experience in the paint-varnish sector, Istanbul In our facilities located in Tuzla Organized Industrial Zone (ITOSB) We produce UV curable paints, varnishes, lacquers and inks. on different surfaces, including wood, plastic, paper, glass and metal surfaces. UV Curable products for the sectors, customer demands We produce accordingly.

Depending on the line parameters of the consumers, we develop products defined as "tailor's model".

The high amount of raw materials we have in our stocks and the high variety of raw materials are important factors in our rapid response to new demands.

The standard quality of our products, fast technical support, fast supply are the parameters that our company attaches the most importance to.



It includes products for factories producing PVC edge bands, especially used in MDF cutting areas in demounted furniture.

- ◆ Solvent Based Adhesion Varnish
- ◆ UV Acrylic Semi Matt Lacquer
- ◆ UV Acrylic Matt Lacquer
- ◆ UV Acrylic Zero Matt Lacquer
- ◆ UV Acrylic High Gloss Lacquer
- ◆ UV Acrylic High Gloss Lacquer for mirror surfaces
- ◆ UV Acrylic White Basecoat
- ◆ UV Acrylic Transparent Basecoat
- ◆ UV Acrylic Ink Colors

General Properties

- ◆ Solvent Based Adhesion Varnish; excellent adhesion on different PVC

Matt and High Gloss Series General Properties

- ◆ High reactivity
- ◆ Excellent chemical resistance
- ◆ Good scratch resistance
- ◆ Homogen surface
- ◆ Excellent levelling
- ◆ Good adhesion
- ◆ UV Acrylic White Basecoat; high hiding power and excellent adhesion
- ◆ UV Acrylic Ink Colors; high hiding power and high color intensity



It includes product groups from UV roller or UV Spray to both basecoat and topcoat applications in the furniture industry sector

General Product Properties

- ❖ **UV Acrylic Barrier Varnish;** excellent adhesion on melamine surfaces, MDF and Venner
- ❖ **UV Acrylic Transparent Roller Putty;** high filling capacity and high transparency
- ❖ **UV Acrylic Roller White Putty;** High filling capacity and good hiding power
- ❖ **UV Acrylic Roller White Primer;** high hiding power and easy sandability
- ❖ **UV Acrylic Roller Sealer Varnish;** excellent levelling and easy sandability
- ❖ **UV Acrylic Roller Topcoat;** high scratch resistance, high abrasion resistance and different gloss levels
- ❖ **UV Acrylic Roller Matt Topcoat;** high scratch resistance, high abrasion resistance and different gloss levels
- ❖ **UV Polyacrylic Spray Sealer Varnish;** excellent adhesion on venner, high transparency
- ❖ **UV Acrylic Spray Sealer Varnish;** open pore application and excellent wetting properties
- ❖ **UV Acrylic Spray Matt Topcoat;** open pore or close pore application, different gloss level and homogenous surface and excellent wetting properties
- ❖ **UV Polyacrylic Spray High Gloss Topcoat;** excellent levelling and high surface hardness
- ❖ **UV Polyester White Primer;** high hiding power and excellent adhesion
- ❖ **UV Acrylic Spray Matt Topcoat;** open pore or close pore application, different gloss and homogenous
- ❖ **UV Polyacrylic High Gloss White Topcoat;** excellent levelling, high surface hardness and high gloss level



It includes products for factory producing 8 - 18 mm thick painted high gloss MDF panels which are also used on the front surfaces of kitchen cabinets, background wall coverings and steel door surfaces in the furniture sector.

- ❖ UV Acrylic Barrier Varnish (Primer)
- ❖ UV Acrylic Intercoat Colors (Different Colors)
- ❖ UV Acrylic Sealer Varnish
- ❖ UV Acrylic High Gloss Varnish (Curtain Coater)
- ❖ UV Acrylic Matt Varnish (Roller Coater)
- ❖ UV Acrylic Excimer Varnish (Soft Touch)

General Properties

- ❖ UV Acrylic Primer; excellent adhesion on melamine surfaces – water boiling resistance (2 hours)
- ❖ UV Acrylic Intercoat Colors; high hiding power, excellent adhesion between the coats
- ❖ UV Acrylic Sealer; excellent levelling and easy sandability
- ❖ UV Acrylic High Gloss Varnish (Curtain Coater); High Gloss (>94 Gloss), excellent levelling, excellent chemical and mechanical resistance
- ❖ UV Acrylic Matt Varnish (Roller Coater); homogen matt surfaces with low quantity and excellent chemical resistance
- ❖ UV Acrylic Excimer Varnish (Soft Touch); deep matt (2 – 3 Gloss) and Soft touch



It includes products for factories producing décor finish foil paper for doors and skirting boards.

- ❖ UV Acrylic Gloss Varnish
- ❖ UV Acrylic Semi Matt Varnish
- ❖ UV Acrylic Matt Varnish

General Properties

- ❖ Good adhesion on water based background or water based print
- ❖ High reactivity (20 m/min. – 100 m/min)
- ❖ Good chemical resistance
- ❖ Good scratch resistance
- ❖ Low odour
- ❖ Homogen surface



It includes products for factories producing HDF or laminated parquet.

- ❖ UV Acrylic Alox Varnish
- ❖ UV Acrylic Sealer Varnish
- ❖ UV Acrylic Timberlant Matt Varnish
- ❖ UV Acrylic Matt Varnish

General Properties

- ❖ Alox varnish provides abrasion resistance in AC1 – AC3 quality and high surface hardness
- ❖ Sealer Varnish provides smooth surface after the alox varnish
- ❖ UV Acrylic Sealer Varnish has easy sandability properties
- ❖ Timberlant varnish can give a streak effect on the surface thanks to its thixotropic structure.
- ❖ UV Acrylic Matt Varnish; high scratch resistance and high chemical resistance
- ❖ High reactivity
- ❖ Gelling process
- ❖ High yellowing resistance



It includes products for factories producing PVC ceiling panel for decorative appearance.

- ◆ UV Acrylic High Gloss Lacquer
- ◆ UV Acrylic Semi Matt Lacquer
- ◆ UV Acrylic Matt Lacquer
- ◆ UV Acrylic Zero Matt Lacquer
- ◆ UV Acrylic Ink Colors

General Properties

- ◆ Excellent levelling
- ◆ High reactivity
- ◆ Excellent chemical resistance
- ◆ Good scratch resistance
- ◆ Homogen surface
- ◆ Good adhesion
- ◆ UV Acrylic Ink Colors; high hiding power and high color intensity



It includes products for companies that make pvd metallizedcoating for car headlight inner surfaces and companies that make PVD metallized coating for perfume - cosmetic cover packages.

- ❖ UV Acrylic Barrier Varnish (Before metallization)
- ❖ UV Acrylic High Gloss Varnish (After metallization)

General Properties

UV Acrylic Barrier Varnish (Before metallization)

- ❖ Excellent adhesion on PP, ABS and moblen surfaces
- ❖ Excellent levelling
- ❖ High Gloss > 95 gloss
- ❖ Good surface hardness
- ❖ Suitable surface for adhesion of metallized

UV Acrylic High Gloss Varnish (After metallization)

- ❖ Excellent adhesion on metallized surfaces
- ❖ Excellent levelling
- ❖ Excellent gloss
- ❖ High chemical resistance



It includes product groups used as background for companies that make decorative digital printing on glass surfaces.

- ◆ UV Acrylic White Paint
- ◆ UV Acrylic Black Paint
- ◆ UV Acrylic Colors

General Properties

- ◆ High Hiding Power
- ◆ Good levelling
- ◆ Good adhesion
- ◆ According to demands, special color can be make

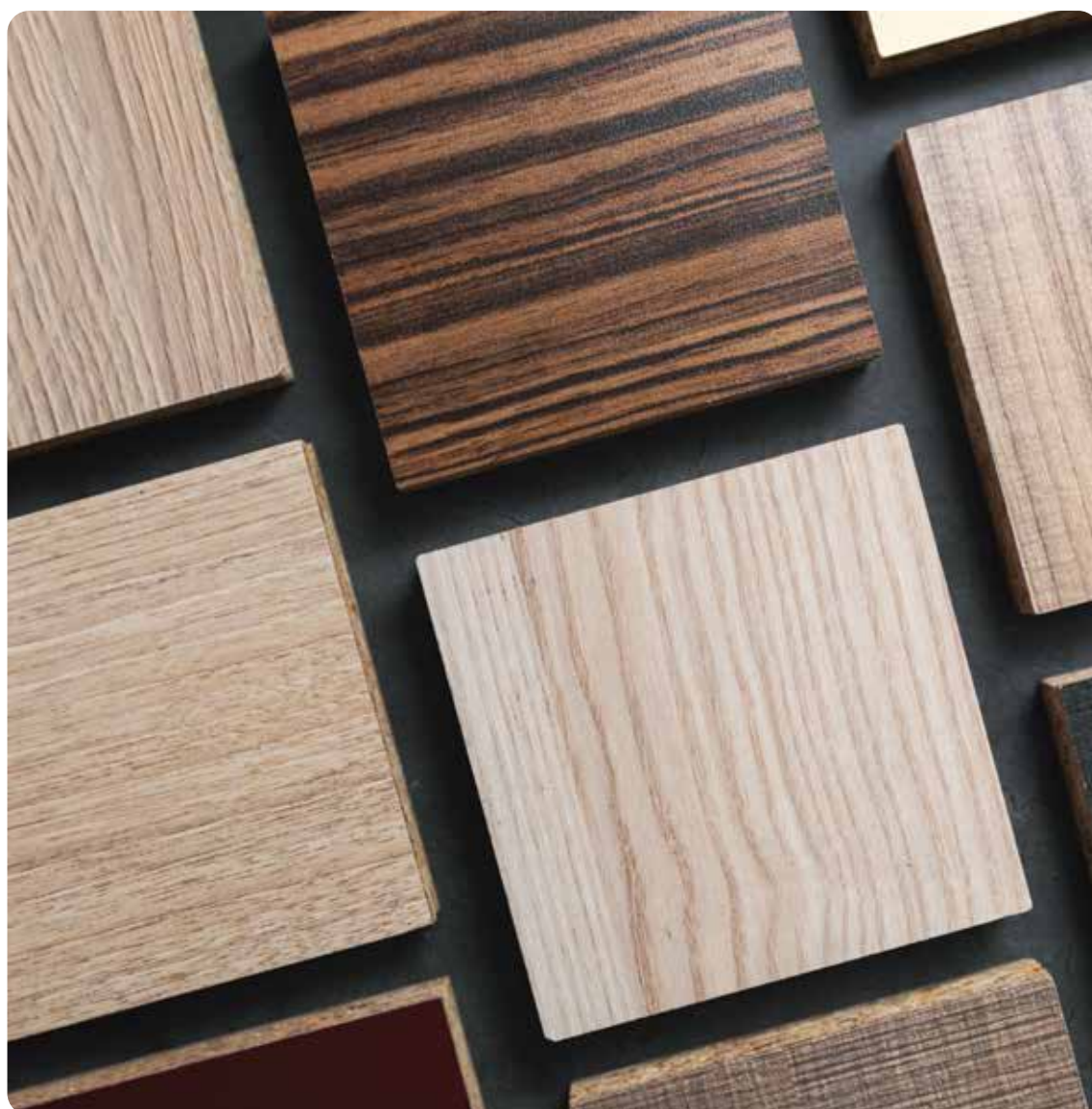


It includes products for factories producing 2 – 6 mm thick painted MDF, which is used on the back surfaces of wardrobes and the bottom bases of drawers and sofa beds in the furniture industry.

- ◆ UV Acrylic Gloss Varnish
- ◆ UV Acrylic Semi Matt Varnish
- ◆ UV Acrylic Matt Varnish

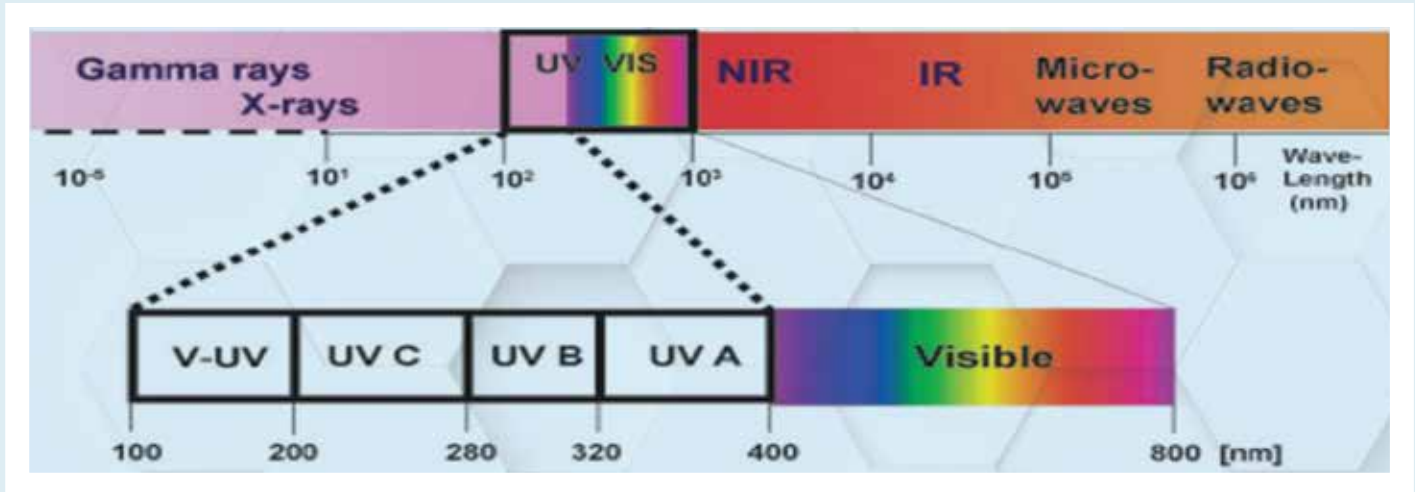
General Properties

- ◆ Good adhesion on water based background or water based print
- ◆ High reactivity (20 m/min. – 100 m/min)
- ◆ Good chemical resistance
- ◆ Good scratch resistance
- ◆ Low odour



UV ve UV Curing

Ultraviolet (UV); rays in the frequency range lower than the visible wavelength (400 – 800 nm), shorter than the human eye can see, but longer than X-ray rays are called rays.



When the reactive groups in the formulation are exposed to ultraviolet (UV) rays, the polymerization reaction starts and the condition that the wet film on the surface is cured in a very short time (1-2 seconds) as a result of cross-linking is called "UV Curing".

Advantages of UV Technology

- High production speed (4-100 m/min), Curing in seconds
- Small space requirements
- Labor saving
- Energy saving (commonly rapid cure at room temperature)
- Excellent chemical and mechanical resistance
- Very low VOC
- Very flexible or very hard film depending on the properties of the UV product
- Usability on heat sensitive surfaces (wood, paper, plastic etc.)
- Unlimited or very long pot-life
- ***** Parallel to the increase in the industrial coating sector, the increase in factory production and the inability to reach the desired production speed with classical coating techniques, the increasing demand for quality, has made the use of UV systems important.**

Application Methods

Radiation curing coatings can be applied with different equipments

- i. Spray
- ii. Roller Coater
- iii. Curtain Coater
- iv. Vacuum

Lamps

In UV coating systems, medium pressure and low pressure lamps are used due to different purposes.

Low pressure lamps have a low power and are generally used for pre-gelling after the flash of period.

Medium pressure lamps are used for total cure of the film at both surface and through of the film.

- **Low Pressure Lamps (10 – 12 W / 0,1 bar)**

After the flash off, It is used to remove paraffin from the wet film and to gel the film before it is fully cured. Today, TL03 / TL 05 lamps are mostly used for pigmented and transparent systems for this purpose.

TL 03.....	420 nm	Pigmented system
TL 05.....	360 nm	Transparent system

- **Medium Pressure UV Lamps (80 – 120 W / 1 bar)**

It ensures that the applied film is completely cured and hardened. In general, most Mercury (Hg) and Gallium (Ga) Lamps are used.

Hg and Ga Lamps have different wavelengths. Therefore, it is used for different purposes.

Mercury (Hg) 360 nm	Transparent Systems
Gallium (Ga)410-420 nm	Pigmented Systems



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