



HIGH-PERFORMANCE COATINGS BY VYNAX

#polyurethane solutions

#plastic #concrete #metal #ceramic #paper #composite
#wood #plastic #concrete #metal #ceramic #paper #
#ceramic #paper #composite #glass #wood #plastic #concrete
#composite #glass #wood #plastic #concrete #met
#ceramic #paper #composite #glass #wood #plastic #co

#vynaxart

HELLO

We are Vynax.

We are bonding sparkling ideas with our chemistry.

We are standing for reaching these bonds into their potential with high performance.

For this purpose, we imagine being a platform where each driven solution is created with all our stakeholders.

Our toolbox is full of commitment and empowerment to encourage ideas put into practice.

We are inspired by hydrogen bonding and our history began.

The story of us is based on an intrapreneurship project in Denge Kimya. Our aspiration comes from those striving days and beyond. Our business is based on urethane chemistry particularly and so on.



We have a wide variety of:



Waterproof



Chemical resistance



UV resistance



Flexibility



Impact resistance



Block resistance



Adhesion



Gloss Surface



Curing time

Branches



Automotive



Construction & Infrastructure



Wood & Furniture



Art & Craft



Aerospace and defense



Glass

Coating Layers

Primer

Base Coat

Top Coat

Self-Sealer

Seal Coat

ASTM D3359-23: Adhesion by Tape Test

ASTM D523: Gloss Test

ASTM D870: Water Immersion Test

ASTM D522: Bend Test

ISO 6272-1: Impact Resistance

BS EN 12720:2009+A1: Resistance to cold liquids

ASTM D570: Water Absorption Test

#whyPUD?

Polyurethane dispersions (PUDs) are gaining attention for their **versatility** and **sustainability** in coating applications. Known for exceptional **adhesion, flexibility, chemical resistance, and durability**, PUDs perform excellently on a variety of surfaces. While traditionally recognized for their hydrophobic nature, **new-generation hydrophilic PUDs** are now emerging, offering enhanced performance in specific applications.

As industries move towards a **low-carbon economy**, innovative techniques like **carbon capture** are enhancing PUD production, making them even more eco-friendly. The unique chemistry of PUDs also supports **recyclability** and **upcycling**, positioning them as a leading choice for **sustainable coatings**.

Explore our diverse range of polyurethane dispersions on the right! Whether you need outstanding **water resistance, superior adhesion, excellent impact resistance, or exceptional UV stability**, our selection guide will help you find the perfect PUD for your specific coating requirements. Dive in and discover the best match for your applications!

FEATURES	POLYETHER BASED	POLYESTER BASED	POLYCARBONATE BASED
hydrolysis resistance	+++	0	++
chemical resistance	0	++	+++
heat resistance	+	++	+++
flexibility	+++	++	+
flexibility at low temperatures	+++	++	+
UV resistance	0	+	++
abrasion resistance	+	+++	++

The information mentioned on the table is based on our present state of knowledge and to inform you about our products and their application possibilities. This is a very general scheme. The product must be checked out according to the specific chemical background.
0= Nearly non-available,
+++= Welldone

PUD 303

Where elegance meets resilience – timeless beauty, untouched by time.

#What is it for?

A **high-gloss, transparent** coating that forms a hard film with **good solvent, stain and water resistance.**

*1K



#Where to use?

primer, top coat, self-sealer, seal coat

#How can you use it?

Spray, brush, dip-coating

“ Enhances surface aesthetics with superior gloss and transparency. This advanced polyurethane coating provides exceptional durability while preserving the natural beauty of surfaces. Ideal for high-end furniture and architectural applications, ensuring long-lasting protection and a flawless finish. ”

#Surfaces mastered so far:

Oak wood, beech wood, glass, metal

#Additives:

inorganic fillers and pigments, wetting agents, deaerating agents, thickeners, anti-foaming agents, plasticizers, dispersing agents

#Chemical properties:

Aliphatic polycarbonate based dispersion

#Methods:

ASTM D523-14, ASTM D3359 - 23, ASTM D870, BS EN 12720:2009+A1, ASTM D4946, ISO 6272-1

#Can be combined with:

Epoxy functional silane, polyaziridine, amino-functional silane, Acrylic Dispersion, Alkyd Emulsion



PUD 307

Protect your art with clarity – even the severe storms can't fade it.

#What is it for?

Co-binder for construction chemicals, provides **transparent, medium-hard coatings** and good for **waterproof solutions**

*1K



#Surfaces mastered so far:

wood, concrete, ceramic

#Additives:

inorganic fillers and pigments, wetting agents, deaerating agents, thickeners, anti-foaming agents, plasticizers, dispersing agents

#Where to use?

top coat, base-coat, seal coat,
waterproof membran system

#Chemical properties:

Aliphatic polycarbonate-ester based dispersion

#How can you use it?

Spray, brush and roller

#Methods:

ASTM D523-14, ASTM D3359 - 23, ASTM D570

“ A transparent, medium-hard coating designed for waterproof solutions with excellent alkali resistance. Ideal for wood and concrete surfaces, it provides long-lasting protection while preserving the natural beauty and durability of the material. Perfect for both industrial and artistic applications. ”

#Combine with:

Epoxy functional Silane,
Acrylic Dispersion,
Alkyd Emulsion, Wax Emulsio, Rosin esters

#wood #concrete #ceramic



Shape, Refine, Protect – The Art of Enduring Beauty.

PUD 308

#What is it for?

A **co-binder solution** designed for **universal pigmented systems**, featuring **low water absorption** in waterproof applications, **transparent** film properties, and a **co-solvent free** composition.
*1K



#Where to use?

top coat, seal coat, waterproof membran system

#How can you use it?

Spray, brush and roller

“ This versatile coating offers excellent flexibility and compatibility with various coating systems, making it ideal for surfaces like plastic and ceramic. It provides reliable protection while maintaining optimal performance across diverse applications, from industrial to decorative uses. ”

#Surfaces mastered so far:

wood, metal, ceramic, plastic

#Additives:

inorganic fillers and pigments, wetting agents, deaerating agents, thickeners, anti-foaming agents, plasticizers, dispersing agents

#Chemical properties:

Aliphatic polyester-based dispersion

#Methods:

ASTM D523-14, ASTM D3359 - 23, ASTM D570,

#Combine with:

Acrylic emulsion, alkyd dispersion, wax emulsion

#wood #plastic #metal #ceramic #paper



PUD 309

Shine On – Every Note, Every Surface, Protected.

#What is it for?

Offering **good adhesion**, **transparent** film properties, good **chemical and water resistance**, excellent **impact resistance**, good **sandability** on wood, and exceptional **flexibility** on metal surfaces.

*1K



#Where to use?

primer, base-coat, top coat, self-sealer, seal coat

#How can you use it?

Spray, brush, dip-coating

“ Provides exceptional protection against harsh conditions while enhancing surface durability. Offers smooth, long-lasting coverage with easy application. Highly resistant to scratches, chemicals, and abrasion, maintaining its smooth finish over time.” ”



*1K (Single Component): A coating solution can be applied directly.

#Surfaces mastered so far:

wood, metal

#Additives:

inorganic fillers and pigments, wetting agents, deaerating agents, thickeners, anti-foaming agents, plasticizers, dispersing agents

#Chemical properties:

Acrylic-urethane hybrid

#Methods:

ASTM D523-14, ASTM D3359 - 23, BS EN 12720:2009+A1, ASTM D522, ASTM D 870, ASTM G31, ASTM D570

#Combine with:

Epoxy functional Silane, Alkyd Emulsion, Polyurethane Dispersions, Acrylic Emulsion, polyaziridine



#wood #metal

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www.vynax.com.tr

Linkedin

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