



## HIGH-PERFORMANCE COATINGS BY VYNAX

#polyurethane solutions

#plastic #concrete #metal #ceramic #paper #composite  
#wood #plastic #concrete #metal #ceramic #paper #  
#paper #composite #glass #wood #plastic #concrete  
#composite #glass #wood #plastic #concrete #meta  
ceramic #paper #composite #glass #wood #plastic #con

#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. ”

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

## #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

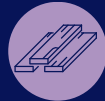
## #Methods:

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

## #Combined with:

Epoxy functional silane, Polyaziridine, Amino-functional silane, Acrylic dispersion, Alkyd emulsion

#glass #wood #metal





# 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



## #Where to use?

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

## #How can you use it?

Spray, brush and roller

“ 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. ”

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

## #Surfaces mastered so far:

wood, concrete, ceramic

## #Additives:

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

## #Chemical properties:

Aliphatic polycarbonate-ester based dispersion

## #Methods:

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

## #Combine with:

Epoxy functional silane, Acrylic dispersion, Alkyd emulsion, Wax emulsion, Rosin esters

#wood #concrete #ceramic



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

#wood #plastic #metal #ceramic #paper

## 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

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





# 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.”

”

## #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

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

#wood #metal



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