



TECHNICAL CONTROL

**WATERBORNE
PUD**

**FOR
INDUSTRIAL COATINGS**

Low Impact Industrial Coatings Solutions

Coating is commonly found in daily life. Objects that can be seen everywhere fall into the category of industrial coating applications, including plastics, wood, metal, etc. The surfaces of these items need to be coated with decorative protective coatings according to different application directions and requirements to enhance product performance while satisfying aesthetics.

Our R&D team employ the most advanced technology and raw materials to develop a series of waterborne PUD, which can be used for plastic coatings, soft touch coatings, metal finishes, flooring coatings, etc. It's featured with excellent adhesion, chemical resistance, and scratch resistance. This series of products has low impact on the environment, contains no volatile organic compounds, and also has excellent physical properties.

Industrial Coatings

Product Code	Product Type	Ionicity	Co-solvent	Solvent Content (%)	Solid Content (%)	Viscosity 25°C (Mpas)	König hardness (s)	Application
PU 161	Aliphatic	Anionic	Acetone	<0.5	35±1	<60	\	Colored resin for wood
PU 163	Aliphatic	Anionic	Acetone	<0.5	35±1	<80	\	Colored resin for wood, dryer than PU 161
PU 611	Aliphatic	Anionic	NEP	8	32±1	<60	189	For pigmented coatings on wood, metal and glass with excellent alcohol resistance
PU 612	Aliphatic	Anionic	NEP	8	32±1	<60	187	For pigmented coatings on wood, metal and glass with excellent alcohol resistance
PU 623A	Aliphatic	Anionic	Acetone	≤1	35±1	<120	35	Water-based wood coatings, plastic coatings
PU 630	Aliphatic	Anionic	Acetone	<0.5	35±1	<100	39	Plastic coatings, metal coatings
PU 639	Aliphatic	Anionic	NEP	4	35±1	<160	57	PVC, ABS
PU 671	Aliphatic	Anionic	NMP	8	35±1	<100	161	Water-based wood coatings, plastic coatings
PU 672	Aliphatic	Anionic	NEP	8	35±1	<100	145	Water-based wood coatings, plastic coatings
PU 673	Aliphatic	Anionic	NEP	6	35±1	<100	155	Water-based wood coatings, plastic coatings
PU 677	Aliphatic	Anionic	MEK	<0.5	35±1	<60	103	Water-based wood coatings, plastic coatings
PU 747	Aliphatic urethane acrylates	Anionic	NEP	4	35±1	<50	134	Water-based wood coatings
PU 748	Aliphatic urethane acrylates	Anionic	DMM	4	35±1	<100	127	Water-based wood coatings
PU 798	Aliphatic urethane acrylates	Anionic	NEP	5	32±1	<50	119	Plastic coatings, metal coatings, wood coatings
PU 799	Aliphatic urethane acrylates	Anionic	NEP	5	32±1	<50	169	Plastic coatings, metal coatings, wood coatings
PU 817	Aliphatic	Anionic	\	\	32±1	800-1000	\	Inherently matt PUD for Water-based wood coatings and plastic coatings
PU 823	Aliphatic	Anionic	\	\	32±1	800-1000	\	Inherently matt PUD for Water-based wood coatings and plastic coatings
UV-PUD 101	Aliphatic	Anionic	\	\	35±1	<100	\	Waterborne UV-curable wood flooring

Acrylic Emulsion

Product Code	Ionicity	Solid Content (%)	Viscosity 25°C (Mpas)	pH	Features
PA 197	Anionic	40±1	35	8-9	Low hydroxyl content acrylic emulsion
PA 293	Anionic	40±1	50	8-9	Self-crosslinking acrylic emulsion

Wax Emulsion

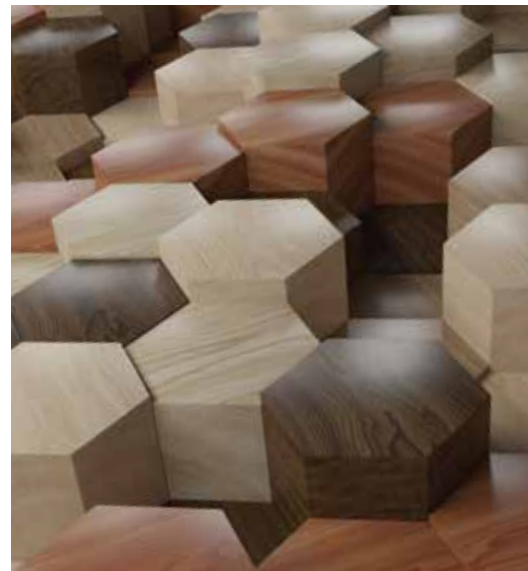
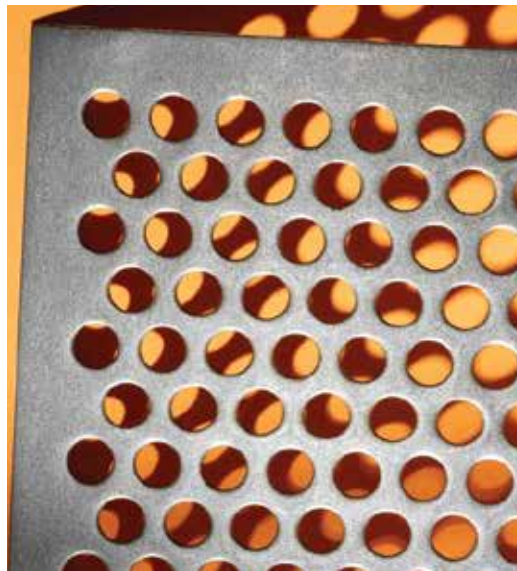
Product Code	Ingredient	Appearance	Gloss	Solid Content (%)	Melting Point (°C)	pH
WAX-100	Carnauba Wax	Beige Emulsion	Matt	30±1	84	8-10
WAX-101	Carnauba Wax	Dark Brown Emulsion	Glossy	30±1	84	8-10
WAX-102	Carnauba Wax	Light Grey Emulsion	Medium-glossy	30±1	84	8-10
WAX-200	Fischer-Tropsch	Milky White Emulsion	Matt	25±1	105	10-12
WAX-201	Fischer-Tropsch	Milky White Emulsion	Glossy	25±1	105	10-12
WAX-400	PE	Milky White Emulsion	Matt	40±1	120-125	8-10
WAX-401	PE	Light Transluscent Emulsion	Glossy	35±1	137	6-8

Water-based Thickener

Product Code	Chemical Type	Solid Content (%)	Viscosity 25°C(Mpas)	Solvent	Solvent Content (%)	Features
PT-20	HEUR	20±1	7000-20000	Water	\	A newtonian polyurethane rheology modifier, gives the formulation excellent levelling and flow.
PT-25	HEUR	25±1	1000-2000	Water	\	Medium to high shear, APEO free. It is suitable for thickening on topcoats.
PT-66	HEUR	40±1	1800-6000	BCS	23±1	Low to medium shear, APEO free. It provides a good balance between thickening efficiency, levelling and gloss.
PT-67	HEUR	40±1	4000-10000	DB	23±1	Low to medium shear, APEO free. It provides a good balance between thickening efficiency, levelling and gloss.

Water-based Crosslinker

Product Code	Ingredient	Active Content (%)	Solvent	Solvent Content (%)	Viscosity 25°C(Mpas)
Isolink D70	Isocyanate	70	DMM	30	≤100
Carbolinker D40	Carbodiimide	40	Water	60	50-300
Carbolinker D50	Carbodiimide	50	DPM	50	200-600
Carbolinker D60	Carbodiimide	60	DPM	40	200-600
Isolink FF	Blocked Isocyanate	40	Water	60	300-500
Isolink PCI	Blocked Isocyanate	40	DMM/Water	5/55	300-600
Poly-azilink 50	Polymeric Aziridine	50	Proglyde DMM	50	20-500



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