



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 (mPa.s)	König hardness (s)	Application
PU 161	Aliphatic	Anionic	Acetone	<0.5	35±1	<60	\	Colored resin for wood
PU 610	Aliphatic	Anionic	DMM	8	35±1	<200	183	For pigmented coatings on wood, metal and glass with excellent alcohol resistance
* PU 611	Aliphatic	Anionic	NEP	8	32±1	<100	189	For pigmented coatings on wood, metal and glass with excellent alcohol resistance
PU 617D	Aliphatic	Anionic	DMM	5	38±1	<200	170	Wood coatings, plastic coatings and metal coatings. The film is featured with high fullness, high gloss, excellent abrasion resistance and alcohol resistance
PU 631	Aliphatic	Anionic	Acetone	<0.5	35±1	<100	39	Water-based plastic coatings, metal coatings
PU 633	Aliphatic	Anionic	Acetone	<0.5	35±1	<100	30	Water-based plastic coatings, elastic paint, soft, excellent abrasion resistance and alcohol resistance
* PU 639	Aliphatic	Anionic	NEP	4	35±1	<160	57	PVC, ABS
PU 661	Aliphatic	Anionic	DMM	8	35±1	<150	145	Water-based plastic coatings, wood coatings, high hardness, abrasion resistance and alcohol resistance, light corrosion resistance can be achieved on metal coatings
PU 671	Aliphatic	Anionic	NMP	8	35±1	<100	161	Water-based metal coatings, plastic coatings and wood coatings, high hardness, abrasion resistance and alcohol resistance, light corrosion resistance can be achieved on metal coatings
PU 675	Aliphatic	Anionic	DMM	6	35±1	<120	150	Water-based wood coatings, plastic coatings
PU 723	Aliphatic urethane acrylates	Anionic	\	\	40±1	<100	183	Water-based wood coatings, plastic coatings, metal coatings
PU 724	Aliphatic urethane acrylates	Anionic	DMM	5	35±1	<200	168	Water-based wood coatings, plastic coatings, metal 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 749	Aliphatic urethane acrylates	Anionic	\	\	35±1	<100	126	Water-based wood coatings
PU 783	Aliphatic urethane acrylates	Anionic	\	\	35±1	<100	180	Water-based plastic coatings, metal coatings, wood coatings
PU 784	Aliphatic urethane acrylates	Anionic	\	\	35±1	<100	184	Water-based plastic coatings, metal coatings, wood coatings
* PU 799	Aliphatic urethane acrylates	Anionic	NEP	5	32±1	<50	169	Water-based 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

* Products not available in Europe market

Industrial Coatings

Product Code	Product Type	Ionicity	Co-solvent	Solvent Content (%)	Solid Content (%)	Viscosity 25°C (mPa.s)	König hardness (s)	Application
UV-PUD 101	Aliphatic	Anionic	\	\	35±1	<100	\	Waterborne UV-curable wood flooring
UV-PUD 102	Aliphatic	Anionic	\	\	35±1	<100	\	Waterborne UV-curable wood coatings, plastic coatings

Acrylic Emulsion

Product Code	Ionicity	Solid Content (%)	Viscosity 25°C (mPa.s)	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

Water-based Thickener

Product Code	Chemical Type	Solid Content (%)	Viscosity 25°C (mPa.s)	Solvent	Solvent Content (%)	Features
● PT-20	HEUR	20±1	7000-20000	Water	\	A newtonian polyurethane rheology modifier, gives the formulation excellent leveling 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, leveling 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, leveling and gloss.
PT-68	HEUR	40±1	1000-5000	BCS	20±1	Medium to high shear, APEO free. It provides a good balance between thickening efficiency, leveling and gloss.

Water-based Crosslinker

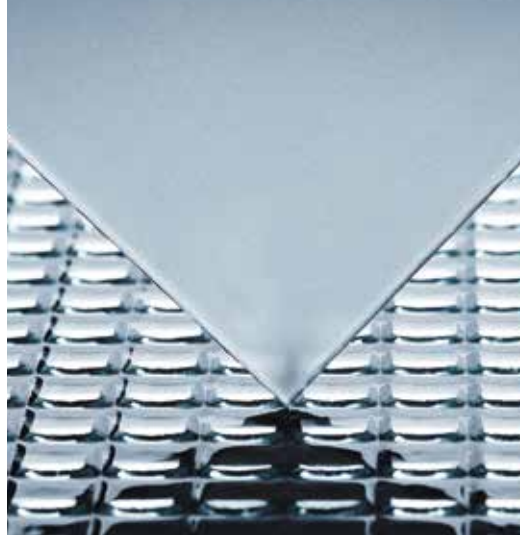
Product Code	Ingredient	Active Content (%)	Solvent	Solvent Content (%)	Viscosity 25°C (mPa.s)	NCO Content (%)
Isolink S100	Isocyanate	100	\	\	1500-4000	17.5±0.5
Isolink S200	Isocyanate	100	\	\	2000-5000	20.5±0.5
● Carbolinker D30	Carbodiimide	30	Water	70	≤100	\
● Carbolinker D40	Carbodiimide	40	Water	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	* 4.5±0.2
Isolink PCI	Blocked Isocyanate	40	DPM/Water	5/55	300-600	* 4.5±0.2
Poly-azilink A50	Polymeric Aziridine	50	DMM	50	20-500	\
Poly-azilink A60	Polymeric Aziridine	60	DPM	40	500-3500	\

● Bluesign® certified product



* Calculation based on theoretical data





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