



Technical Control

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Creativity

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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.

Waterborne Polyurethane

Product Code	Isocya-nate Type	Polyol Type	Hydropillic Character	Co-Solvent	Solvent Content (%)	Solid Content (%)	Viscosity mpa.s @25°C	Tensile Strength (Mpa)	Elongation Break (%)	Features
PU 161	Aliphatic	Polyester	Anionic	Acetone	<0.5	35±1	30	25	500	Coloring resin for wood, can be diluted with alcohol
PU 163	Aliphatic	Polyester	Anionic	Acetone	<0.5	35±1	20	38	600	Coloring resin for wood,
PU 611	Aliphatic	Polyester	Anionic	NEP	8	32±1	30	\	\	For wood, metal, and glass paint, featured with high gloss, high hardness
PU 612	Aliphatic	Polyester	Anionic	NEP	8	32±1	30	\	\	For wood, metal, and glass paint, featured with high gloss, high hardness
PU 613	Aliphatic	Polyether	Anionic	DMM	5	35±1	50	10	600	Water-based wood paint, plastic paint
PU 614	Aliphatic	Polyether	Anionic	NEP	6	35±2	51	10	600	Water-based wood paint, plastic paint
PU 623A	Aliphatic	Polycar-bonate	Anionic	Acetone	≤1	35±1	60	23	400	Water-based wood paint, plastic paint
PU 630	Aliphatic	Polycar-bonate	Anionic	Acetone	<0.5	35±1	50	30	500	Water-based wood paint, plastic paint, metal paint
PU 638	Aliphatic	Polycar-bonate	Anionic	Acetone	≤1	35±1	30	35	300	Water-based wood paint, plastic paint, metal paint
PU 639	Aliphatic	Polyester	Anionic	NEP	4	35±1	80	38	200	ABS, PVC coating with excellent adhesion
PU 671	Aliphatic	Polycar-bonate	Anionic	NMP	8	35±1	50	40	250	Water-based wood paint, plastic paint, metal paint
PU 672	Aliphatic	Polycar-bonate	Anionic	NEP	8	35±1	50	40	250	Water-based wood paint, plastic paint, metal paint
PU 677	Aliphatic	Polycar-bonate	Anionic	MEK	<0.5	35	30	\	\	Water-based wood paint, plastic paint, metal paint
PU 817	Aliphatic	Polyether	Anionic	\	\	32±1	1000	\	\	Matt PU with strong rubber touch
PU 823	Aliphatic	Polyether	Anionic	\	\	32±1	1000	\	\	Matt PU with strong slippery touch

Acrylic Emulsion

Product Code	Hydropilic Character	Solid Content (%)	Viscosity mpa.s@25°C	pH	Hydroxyl Content(%)	Features
PA 197	Anionic	40	35	8-9	1	Low hydroxyl content acrylic emulsion
PA 293	Anionic	40	50	8-9	\	Self-crosslinking acrylic emulsion

Wax Emulsion

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

Water-based Thickener

Product Code	Ingredient	Hydropilic Character	Solid Content (%)	Solvent	Solvent Content(%)	Features
PT-20	Polyurethane	Nonionic	20 ±1	Water	\	High shear
PT-30	Polyurethane	Nonionic	30 ±1	Water	\	Medium to Hign shear, APEO free
PT-31	Polyurethane	Nonionic	30 ±1	Butyl Carbitol	16 ±1	Low to Medium shear, APEO free
PT-66	Polyurethane	Nonionic	40 ±1	BCS	23 ±1	Low to Medium shear, APEO free
PT-67	Polyurethane	Nonionic	40 ±1	Butyl Carbitol	23 ±1	Low to Medium shear, APEO free
PT-70	Polyurethane	Nonionic	40 ±1	Water	\	Medium shear
PT-101	Acrylic	Anionic	30 ±1	Water	\	Low to Medium shear, APEO free

Water-based Crosslinker

Product Code	Ingredient	Active Content(%)	Solvent	Solvent Content (%)	Viscosity mpa.s @25°C
Isolink D70	Isocyanate	70	DMM	30	≤100
Carbolinker D30	Carbodiimide	30	WATER	70	50-300
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	DPM/WATER	5/55	300-600

