



TECHNICAL CONTROL



**WATERBORNE
PUD**

**FOR
PRINTING INKS**

Eco-friendly Solutions for Printing Industry

Technical Control provides advanced solutions for the printing industry, aiming to fulfil the customers' needs for the performance and aesthetic of products. In the context of sustainable development, waterborne PUD has widely used in paper and film printing, suitable for gravure printing inks or flexographic printing inks for OPP, PET and PVC films etc.

Our products are featured with outstanding physical properties such as good adhesion, excellent wetting and leveling, quick drying time, and excellent anti-adhesion. It can be widely used in surface printing of food packaging and other packaging materials.

Matt coating as surface treatment has become the mainstream of the market. Many printing products are treated with matt finish which gives them a more textured look. Given the different needs of water-based matt PU in various market applications, furthermore, TC adopts the most cutting-edge technology and our R&D team modified the matt PU according to the requirements of specific industries to further enhance the performance of the products. Matt PU developed by TC provides rubbery feel and soft touch and can be used for top coat matting agent on a variety of substrates.

Waterborne Polyurethane

Product Code	Product Type	Ionicity	Co-solvent	Solvent Content (%)	Solid Content (%)	Viscosity 25°C (Mpas)	TPU	PVC Film	OPP Film	PET Film	Overprint Varnish	Specialty Paper
PU 104	Aliphatic	Anionic	NEP	4	40±1	<400			●		●	●
PU 105	Aliphatic	Anionic	NEP	4	40±1	<600			●		●	●
PU 150	Aliphatic	Anionic	Acetone	<0.5	40±1	<100	●			●	●	●
PU 161	Aliphatic	Anionic	Acetone	<0.5	35±1	<60	●	●	●	●		
PU 161-2	Aliphatic	Anionic	Acetone	<0.5	35±1	<100	●	●	●	●		
PU 162	Aliphatic	Anionic	Acetone	<0.5	35±1	<100			●	●		
PU 165	Aliphatic	Anionic	\	\	35±1	<100	●	●	●	●		
PU 166	Aliphatic	Anionic	Acetone	<0.5	40±1	<200	●	●	●	●		
PU 168	Aliphatic	Anionic	Acetone	<0.5	38±1	<200	●	●	●	●		
PU 169	Aliphatic	Anionic	Acetone	<0.5	40±1	<200	●	●	●	●		
PU 171	Aliphatic	Anionic	NEP	8	35±1	<100	●	●	●	●		
PU 206	Aliphatic	Anionic	NEP	6	40±1	<100	●	●	●	●		
PU 611	Aliphatic	Anionic	NEP	8	32±1	<60				●	●	
PU 612	Aliphatic	Anionic	NEP	8	32±1	<60				●	●	
PU 615A	Aliphatic	Anionic	DEF	4	31±1	<120		●	●	●	●	
PU 621	Aliphatic	Anionic	NEP	4	25±1	<50	●	●	●	●	●	●
PU 623A	Aliphatic	Anionic	Acetone	≤1	35±1	<120	●	●		●	●	
PU 638	Aliphatic	Anionic	Acetone	≤1	35±1	<60	●	●	●			
PU 639	Aliphatic	Anionic	NEP	4	35±1	<200	●	●	●			
PU 650	Aliphatic	Anionic	\	\	28±1	<25			●	●	●	
PU 661	Aliphatic	Anionic	DMM	8	35±1	<100	●	●		●	●	
PU 672	Aliphatic	Anionic	NEP	8	35±1	<100	●	●		●	●	
PU 677	Aliphatic	Anionic	MEK	<0.5	35±1	<50	●	●	●	●	●	
PU 747	Aliphatic	Anionic	NEP	4	35±1	<100		●	●	●	●	
PU 748	Aliphatic	Anionic	DMM	4	35±1	<100		●	●	●	●	



Waterborne Polyurethane

Product Code	Product Type	Ionicity	Co-solvent	Solvent Content (%)	Solid Content (%)	Viscosity 25°C (Mpas)	TPU	PVC Film	OPP Film	PET Film	Overprint Varnish	Specialty Paper
PU 749	Aliphatic	Anionic	\	\	35±1	<100		●	●	●	●	
PU 751	Aliphatic	Anionic	\	\	40±1	<100		●	●	●	●	
PU 813A	Aliphatic	Anionic	\	\	32±1	<1000	●	●		●	●	
PU 815	Aliphatic	Anionic	\	\	32±1	<1000	●	●		●	●	
PU 822	Aliphatic	Anionic	\	\	32±1	<1000	●	●	●	●		●
PU 8501F	Aliphatic	Anionic	\	\	32±1	<1000	●	●	●	●		
PU 8502A	Aliphatic	Anionic	\	\	32±1	<1000	●	●	●	●		●
UV-PUD 201	Aliphatic	Anionic	\	\	35±1	<100					●	●

Water-based Thickener

Product Code	Chemical Type	Solid Content (%)	Viscosity 25°C(Mpas)	Solvent	Solvent Content (%)	Features
PT-20	HEUR	20±1	5000-12000	Water	\	A newtonian polyurethane rheology modifier, gives the formulation excellent leveling and flow.
PT-25	HEUR	25±1	5000-12000	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	1800-6000	BCS	20±1	Low to medium 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(Mpas)
Isolink D70	Isocyanate	70	DMM	30	≤100
Isolink 100	Isocyanate	100	\	\	≤500
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





Reliable Innovative Eco-Friendly

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