



TECHNICAL CONTROL



**WATERBORNE
PUD**
FOR
TEXTILE PRINTING

Sustainable Textile Printing Solutions

Low-carbon green transformation becomes a global consensus and action, in this context, the textile industry is seeking different solutions for sustainable development transformation. Through monitoring industry trends and improving production processes, our product team is dedicated to employ low-carbon raw materials to develop products and provide green material solutions while maintaining their high performance.

Technical Control has developed a series of environmentally friendly solutions for textile printing to support the sustainable development of the industry. The high performance waterborne polyurethane resin developed by Technical Control can be used in the preparation of shoe screen printing ink, plastisol inks, waterborne textile inkjet printing ink, etc. It has excellent adhesion and washability on substrates such as cotton, denim, nylon, Lycra.

Technical Control is committed to providing high-quality waterborne polyurethane for formulators. Given different substrate coating and performance requirements, our product team can promptly adjust product properties according to the downstream application demands such as elasticity, softness, washability, abrasion resistance, gloss etc., can be fine-tuned to meet complex formulation requirements.

Waterborne Polyurethane

Product Code	Product Type	Ionicity	Co-solvent	Solvent Content (%)	Solid Content (%)	Elongation at Break (%)	Tensile Strength (Mpa)	Modulus 100% (MPa)	Application
PU 104	Aliphatic	Anionic	NEP	4	40±1	700	28	5	Pigmented inks for printing inks on shoes
PU 105	Aliphatic	Anionic	NEP	4	40±1	650-800	19	6.2	Pigmented inks for textile printing paste and glossy topcoat
PU 109	Aliphatic	Anionic	Acetone	<1	35±1	600	48	6	Pigmented inks for textile printing and glossy paste
PU 156	Aliphatic	Anionic	DMM	4	40±1	700-900	23	5.5	Soft and glossy topcoat
PU 158	Aliphatic	Anionic	DMM	4	35±1	600-800	34	11	High-glossy coatings for printing inks on shoe uppers or garments
PU 159	Aliphatic	Anionic	DEF	4	35±1	600	54	12	High-glossy coatings for printing inks on shoe uppers or garments
PU 206	Aliphatic	Anionic	NEP	6	40±1	400-600	46	8.3	High-glossy coatings with good adhesion
● PU 281	Aliphatic	Anionic	Acetone	<1	50±1	600-800	33	4	Primer
PU 282	Aliphatic	Anionic	Acetone	<1	50±1	700-900	19	3	Primer
PU 283	Aliphatic	Anionic	Acetone	<1	50±1	900-1100	11	1.2	Primer
PU286A	Aliphatic	Anionic	Acetone	<1	55±1	900-1100	19	2	Primer
PU 287	Aliphatic	Anionic	Acetone	<1	60±1	700-900	15	2.3	Primer
PU 288	Aliphatic	Anionic	Acetone	<1	60±1	700-900	20	2	Primer
PU 289	Aliphatic	Anionic	Acetone	<1	60±1	700-900	31	2.2	Primer
PU 304	Aliphatic	Anionic	Acetone	<1	35±1	800	32	4	Waterproof nylon cloth, umbrella cloth
PU 630	Aliphatic	Anionic	\	\	35±1	350-550	30-40	8-15	Textile inkjet printing
PU 633	Aliphatic	Anionic	\	\	35±1	400-550	45-55	4-6	Textile inkjet printing
PU 816A	Aliphatic	Anionic	\	\	32±1	\	\	\	Matt topcoat
● PU 822A	Aliphatic	Anionic	\	\	32±1	\	\	\	Matt topcoat
WELLPUR FF 18D	Aliphatic	Cationic	DMM	5	30±1	200	\	\	Pre-treatment for textile inkjet printing

● Bluesign® certified product



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 Translucent 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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