



Technical Control

Inspire
Infinite
Creativity

Contact Us

Headquarter

Flat 501-502, 5/F China Shipbuilding
Tower, 650 Cheung Sha Wan Road,
Kowloon, Hong Kong SAR

Tel: +852 3583 2341
Fax: +852 2407 6945
Email: info@techcrl.com

Business Center

Dongguan Technical Control New Material Ltd.
18/F, Blk 3, Songhu Zhigu R&D Center,
6 Minfu Road, Liaobu Town, Dongguan,
Guangdong Province

Tel: +86 0769-82637091/82637092
Fax: +86 0769-82637090

Production Site

China

No.7, Gantang Nine Road, Gantang
Avenue South, Xi Lian Town, Wu Jiang
District, Shaoguan, Guangdong
Province, China

Italy

Via Lumiere 16/18 SEDRIANO (MI) ITALY

Tel: +86 0751 8130066/8130060
Email: info.tcsg@techcrl.com



LinkedIn

WeChat

www.techcrl.com

member of D&A Group

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	Isocyanate Type	Polyol Type	Hydrophilic Character	Co-Solvent	Solvent Content (%)	Solid Content (%)	Viscosity mpa.s @25°C	pH	Tensile Strength (Mpa)	Elongation Break (%)	Modulus 100% (N)	Features
PU 104	Aliphatic	Polyether	Anionic	NEP	4	40±1	200	7-9	28	700	5	Soft, good elasticity, strong thixotropy, high fullness
PU 105	Aliphatic	Polyether	Anionic	NEP	4	40±1	200	7-9	7	650-800	6.2	Soft, good elasticity, strong thixotropy, high fullness, high gloss
PU 109	Aliphatic	Polyether	Anionic	Acetone	≤1	35	100	7-9	48	600	6	Soft, good elasticity, strong thixotropy, high fullness, high gloss
PU 146	Aliphatic	Polyether	Anionic	NEP	4	40±1	200	7-9	17	800-1000	9	Soft, good elasticity, strong thixotropy, high fullness
PU 147	Aliphatic	Polyether	Anionic	NEP	4	40±1	200	7-9	28	700	5	Soft, good elasticity, strong thixotropy, high fullness
PU 147D	Aliphatic	Polyether	Anionic	DMM	4	40±1	200	7-9	28	700	5	Soft, good elasticity, strong thixotropy, high fullness
PU 148	Aliphatic	Polyether	Anionic	NEP	4	40±1	200	7-9	7	650-800	6.2	Soft, good elasticity, strong thixotropy, high fullness, high gloss
PU 148D	Aliphatic	Polyether	Anionic	DMM	4	40±1	200	7-9	7	650-800	6.2	Soft, good elasticity, strong thixotropy, high fullness, high gloss
PU 161	Aliphatic	Polycarbonate Polyether	Anionic	Acetone	≤1	35±1	50	7-9	25	500	16	Good adhesion on waterproof nylon cloth and umbrella cloth
PU 280	Aliphatic	Polyether	Anionic	Acetone	≤1	50±1	<1500	7-9	19	700	5	Soft, high solid content, wash resistance, flex resistance
PU 281	Aliphatic	Polyether	Anionic	Acetone	≤1	50±1	<1000	7-9	15	800	3	Soft, high solid content, wash resistance, flex resistance
PU 283C	Aliphatic	Polyester	Anionic	Acetone	≤1	50±1	<1000	7-9	11	1000	1.2	Soft, high solid content, wash resistance, flex resistance
PU 304	Aliphatic	Polycarbonate Polyether	Anionic	Acetone	≤1	35±1	40	7-9	32	800	4	Good adhesion on waterproof nylon cloth and umbrella cloth
PU 314	Aromatic	Polyether	Anionic	Acetone	≤0.5	50	350	7-9	25	1000	4	Soft, good elasticity, strong thixotropy, high fullness
PU 338	Aromatic	Polyether	Anionic	Acetone	≤0.5	40±2	50	7-9	23	600	15	Soft, dry, good elasticity
PU 623A	Aliphatic	Polycarbonate Polyether	Anionic	Acetone	≤1	35±1	60	7-9	23	400	10	High tensile strength, high gloss
PU 816A	Aliphatic	Polyether	Anionic	\	\	32±1	1000	7-9	\	\	\	Matt PU with strong touch
PU 822A	Aliphatic	Polyether	Anionic	\	\	32±1	1000	7-9	\	\	\	Matt PU with strong touch
PU 823	Aliphatic	Polyether	Anionic	\	\	32±1	1000	7-9	\	\	\	Matt PU with strong touch
WELLPUR FF 18D	Aliphatic	Polyether	Cationic	DMM	5	30±1	100	3-5	\	200	\	Pretreating agent for inkjet textile printing

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	Hydrophilic 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

