TECHNICAL CONTROL

WATERBORNE PUD

FOR LEATHER FINISHING

Water-based Leather Finishing Solutions

Waterborne polyurethane dispersion for leather has always been a key project of Technical Control. With precise synthesis technology, we offer a series of waterborne polyurethane resin products, which can be used for base, middle and top coat on leather.

Base coat resins are soft, non-sticky, polishable and typically formulated with water-based acrylic emulsions. The non-ionic and cationic resins used as base coat are featured with excellent sealing effect. The middle coat resins are soft, with high strength and good embossing properties. The topcoat resins are featured with the properties of softness, abrasion resistance, dry and wet rub resistance and high strength. We supply both high-gloss and matt products to meet the needs for different types of finishes.

The products used for leather, PU, PVC and microfiber finishing have the properties of non-sticky, anti-adhesive, fast drying as well as excellent dry and wet rub resistance. They can be used in the process techniques of roll coating, scrape coating, gravure printing and spray etc.

All products are compliant with ZDHC MRSL 3.1 LEVEL 3

Aliphatic Waterborne Polyurethane

Product Code	Chemical Type	Ionicity	Co-solvent	Solvent Content (%)	Solid Content (%)	Viscosity 25°c (Mpas)	Elongation at Break (%)	Tensile Strength (Mpa)	Modulus 100% (MPa)	Application
PU-101	Polyether	Anionic	DMM	2	30±1	<300	\	\	\	Base Coat
PU-127	Polyether	Anionic	DMM	2	35±1	<700	450-650	25-30	5-7	Base Coat
PU-135	Polyether	Anionic	\	\	35±1	<35	600-650	38-45	6-7	Base Coat
PU-137D	Polyether	Anionic	DMM	2	30±1	45	700	17	5	Base Coat
PU-138A	Polyether	Anionic	DMM	4	30±1	200	650	28	7	Base Coat
PU-139D	Polyether	Anionic	DMM	3.5	30±1	50	450	32	6	Base Coat
PU-145D	Polyether	Anionic	DMM	4	35±1	35	600-650	27-30	5.5	Base Coat
PU-149D	Polyether	Anionic	DMM	4	35±1	<500	550-850	30	18-30	Top Coat
PU-2321	Polyether	Nonionic	DMM	4	30±1	\	\	\	\	Base Coat
PU-613	Polyether	Anionic	DMM	5	35±1	50	600	10	15	Top Coat
PU-619D	Polyether	Anionic	DMM	4.5	35±1	40	400-500	50-56	8-9	Top Coat Base Coat
PU-623A	Polycarbonate	Anionic	Acetone	≤1	35±1	60	400	23	10	Top Coat Base Coat
PU-6261	Polycarbonate	Anionic	Acetone	≤1	35±1	100	300	25	25	Top Coat
PU-630	Polycarbonate	Anionic	Acetone	≤1	35±1	50	500	30	20	Top Coat
PU-639D	Polyester	Anionic	DMM	4	35±1	100	450-550	30	20	Top Coat
PU-651	Polyether	Anionic	DMM	6	30±1	<50	400-600	25-30	8-12	Top Coat
PU-651C	Polyether	Anionic	DMM	6	35±1	<50	400-600	25-30	8-12	Top Coat
PU-652	Polyester	Anionic	DMM	5.3	35±1	<500	500-600	34-38	5-7	Top Coat
PU-654	Polyether	Anionic	DMM	4	35±1	<500	500-850	30	18-30	Top Coat
PU-655	Polyether	Anionic	DMM	5	35±1	<50	600	10	15	Top Coat
PU-816A	Polyether	Anionic	\	\	32±1	1000	\	7-9	\	Top Coat
WELLPUR FF 18D	Polyether	Cationic	DMM	5	30±1	100	\	\	\	Base Coat
Bio-PU 1052	Polyether	Anionic	Acetone	≤1	30±1	50	400	29	5.8	Base Coat
Bio-PU 1061	Polyether	Anionic	DMM	5	35±1	50	600	10	15	Top Coat

USDA certified bio-based product

Acrylic Emulsion

Product Code	Chemical Type	Ionicity	Solid Content (%)	Tg (°c)	Viscosity 25°c(Mpas)	pH	Density 25°c(g/mL)	Features
PA 2020	Styrene Acrylic	Anionic	35±1	-10	100	7-9	1.02	Soft film forming
PA 2024	Acrylic	Anionic	40±1	17	100	7-9	1.04	Dry film forming

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 Transluscent 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	80±1	A newtonian polyurethane rheology modifier, gives the formulation excellent levelling and flow.
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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