



TECHNICAL CONTROL

WATERBORNE PUD

**FOR
LEATHER**

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 V3.1

Aliphatic Waterborne Polyurethane

Product Code	Chemical Type	Ionicity	Co-solvent	Solid Content (%)	Elongation at Break (%)	Tensile Strength (Mpa)	Modulus 100% (MPa)	Features & Application
PU-101	Polyether	Anionic	DMM	30±1	\	\	\	Binder resin, very soft with good adhesion
PU-103D	Polyether	Anionic	DMM	30±1	400-600	32-52	3-7	Binder resin, very soft with good adhesion
PU-127	Polyether	Anionic	DMM	35±1	450-650	25-30	5-7	Soft film, tack free surface
PU-135	Polyether	Anionic	\	35±1	600-800	25-35	4-7	Soft film, tack free surface
PU-137D	Polyether	Anionic	DMM	30±1	600-800	12-22	3-5	Soft and tack free
PU-138A	Polyether	Anionic	DMM	30±1	550-750	23-33	5-9	Soft, tack-free, good elasticity
PU-145D	Polyether	Anionic	DMM	35±1	550-700	27-40	5-8	Soft, tack-free, good anti-sticky property
PU-149D	Polyether	Anionic	DMM	35±1	550-850	25-35	18-30	Soft film, tack free surface, good anti-sticky property, excellent wet and dry rub resistance
PU-2301	Polyester	Nonionic	DMM	30±1	\	\	\	Soft film, tack free surface, good adhesion, polishable
PU-2317	Polyester	Nonionic	DMM	30±1	\	\	\	Softer than PU 2301, good adhesion, polishable
PU-2321	Polyester	Nonionic	DMM	30±1	\	\	\	Softer than PU 2317, good adhesion, polishable
PU-23A	Polyether	Nonionic	\	30±1	450-650	15-35	1-5	Soft, tack-free, good elasticity
PU-613	Polyether	Anionic	DMM	35±1	150-300	20-35	18-26	High gloss, anti-sticky property, abrasion resistance, excellent wet and dry rub resistance
PU-619D	Polyether	Anionic	DMM	35±1	400-500	50-56	8-9	High gloss, soft, abrasion resistance, excellent wet and dry rub resistance
PU-623A	Polyether	Anionic	Acetone	35±1	300-500	18-28	8-12	High gloss, soft, abrasion resistance, excellent wet and dry rub resistance
PU-6261	Polycarbonate	Anionic	Acetone	35±1	250-350	20-30	7-12	High gloss, soft, abrasion resistance, excellent wet and dry rub resistance
PU-630	Polycarbonate	Anionic	Acetone	35±1	350-550	30-40	8-15	Soft, abrasion resistance
PU-633	Polycarbonate	Anionic	Acetone	35±1	510-650	60-70	4-6	Softer than PU 630, excellent abrasion resistance
PU-639D	Polyester	Anionic	DMM	35±1	450-550	20-40	15-25	High gloss, soft , abrasion resistance, excellent wet and dry rub resistance
PU-651	Polyether	Anionic	DMM	3031	400-600	25-35	8-12	Patent leather topcoat, high gloss, suitable for roller-coating application



Aliphatic Waterborne Polyurethane

Product Code	Chemical Type	Ionicity	Co-solvent	Solid Content (%)	Elongation at Break (%)	Tensile Strength (Mpa)	Modulus 100% (MPa)	Features & Application
PU-652	Polyester	Anionic	DMM	35±1	500-600	34-38	5-7	High gloss, soft
PU-653D	Polyester	Anionic	DMM	35±1	550-850	25-35	18-30	High gloss, soft
PU-813	Polyether	Anionic	\	32±1	\	\	\	Self-matting PUD, soft touch, ultra-low gloss
PU-816C	Polyether	Anionic	\	32±1	\	\	\	Self-matting PUD, soft touch, ultra-low gloss
WELLPUR FF 18D	Polyether	Cationic	DMM	30±1	\	\	\	Soft
Bio-PU 1052	Polyether	Anionic	Acetone	30±1	300-500	24-34	4-8	68% bio-based content, soft, tack-free
Bio-PU 1061	Polyether	Anionic	DMM	35±1	500-700	5-15	13-17	42% bio-based content, tack-free surface, high gloss, good abrasion resistance, excellent wet and dry rub resistance

 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	Acrylic	Anionic	35±1	-10	≤200	7-9	1.02	Soft film forming
PA 2024	Acrylic	Anionic	40±1	17	≤200	7-9	1.04	Dry film forming

Water-based Thickener

Product Code	Chemical Type	Solid Content (%)	Viscosity 25°C(Mpas)	Solvent	Solvent Content (%)	Features
PT-20	HEUR	20±1	5000-15000	Water	80±1	A newtonian polyurethane rheology modifier, gives the formulation excellent levelling and flow.
PT-66	HEUR	40±1	1000-5000	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 100	Isocyanate	100	\	\	≤300
Isolink D70	Isocyanate	70	DMM	30	≤500
Carbolinker D30	Carbodiimide	30	Water	70	≤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
Azilink 100	Aziridine	100	\	\	≤300





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