DELTECH RESINS

Polyurethane Dispersions

Water based polyurethane dispersions (PUDs) are viable alternatives to solvent based urethanes and other coating resins. PUDs are used for urethane coatings, inks, varnishes, adhesives and binders. PUDs have low volatile organic content and can be formulated for many applications that require compliance with clean air regulations. PUDs are colloidal dispersions in water with film forming at room temperature, low toxicity, one component ease of use and high molecular weight at low viscosity. PUDs exhibit excellent hardness, excellent toughness, a broad variety of flexibility, excellent blocking resistance, abrasion resistance, and good water and chemical resistances.

PUDs can be formulated to provide superior coating and adhesive properties for use on wood, concrete, metal, plastics, paper, textiles, nonwovens, leather and rubber. Formulation modification can be matched to the substrate requirement for adhesion, resistance, gloss and weatherablity.

UR-CRYL ALIPHATIC URETHANE DISPERSIONS

UrCryl Resin	NV Wt%	Viscosity cps	Resin VOC	Sward Hardness	Tensile psi	Freeze Thaw	Description
U-2000	32.0	10-200	0.33	12	5000	5	Medium soft, solvent free, low temperature properties
U-3200	40.0	10-200	1.01	8	5000	5	Soft polyester, credit card inks, adhesives
U-3210	37.5	10-200	1.23	6	6000	5	Soft polyester, textile coating
U-3252	35.0	100-450	2.60	18	4500	5	Water clear, hard film, excellent adhesion
U-3288	38.0	50-175	2.60	24	NA	5	Superior alcohol, alkali and stain resistant floor finish
U-3298	38.0	100-300	2.60	24	NA	5	Excellent alcohol, stain resistance
U-3298A	38.0	200-450	2.30	26	NA	5	Highest cross-linker, excellent abrasion, chemical resistance. Maintains wood color without darkening
U-3300	35.0	10-200	1.60	20	5500	5	Hard polyester, excellent wear, abrasion resistance
U-3400	35.0	10-200	1.50	20	6000	5	High gloss polyester-polycarbonate
U-3425	38.0	200-600	1.03	15	4200	5	Binder for removable, breakaway labels
U-3443	40.0	1000-2800	1.25	20	6000	5	Higher solids U-3400
U-3566	38.0	300-700	2.50	25	NA	5	Oil modified self cross-linking, excellent floor finish,
U-4000	40.0	10-200	1.10	20	1800	5	Hard, exceptional clarity, non-flammable

UR-CRYL AROMATIC URETHANE DISPERSIONS

UrCryl Resin	NV Wt%	Viscosity cps	Tg^{o}C	Sward Hardness	Tensile psi	Freeze Thaw	Description
SH7-35G	32.0	50-250	2.12	26	5700	5	Excellent floor finish to replace solvent type

DELTECH RESINS

Acrylic Emulsions

Emulsion polymer technology uses water as a low viscosity medium supporting polymer spheres contained in suspension. Emulsion polymers are a unique way to exploit the desirable properties of high molecular weight polymers almost entirely in the absence of organic solvents. Acrylic emulsion polymers usually exhibit excellent stability (minimal gelation, settling and degradation) within a defined pH range. Acrylic coatings based on emulsion polymers can be used to formulate roof coatings that can be pigmented to offer a wide range of colors, including high reflectivity colors for greater energy efficiency. Emulsion polymers can also be used in many other applications such as house and masonry paints, tennis court coatings, and caulking compounds.

UR-CRYL ACRYLIC EMULSIONS

UrCryl Resin	NV Wt%	Tg°C	Viscosity cps	Sward Hardness	Description
A-300	46.0	7	40-500	1	Excellent stability to calcium ions, low foaming for cement addition
A-300F	46.0	7	40-500	1	Excellent foam resistance A-300
A-311	46.0	-22	20-150	1	Zero VOC DTM primer
A-900	43.0	3	100-600	1	Rust resistant metal primer, stain resistant wood primer
A-1100	40.0	-25	20-500	1	Very soft, adhesive applications, modifier
A-1120	40.0	-12	20-500	1	Soft, textile finishes, good adhesion
A-1148	42.0	24	50-450	18	Chemical resistance, no whitening immersed in water
A-1150	42.0	22	50-450	18	Excellent water resistance, cement sealer
A-1165	40.0	-7	20-250	3	Medium soft, cross linker, very fine particles
A-1180	40.0	5	20-500	5	Medium hard, white shoes
A-1300	40.0	9	20-500	10	Medium hard
A-1400	50.0	18	20-500	20	Hard, high gloss, modified for metal substrates
A-1450	43.5	24	100-200	22	Modified acrylic, blush resistant
A-1500	40.0	18	20-500	15	Very hard, modifier for softer acrylics, urethanes
A-1600	40.0	21	50-450	24	Excellent chemical, blush resistance
A-1605	40.0	21	450-1600	25	A-1600 plus wet adhesion
A-1606	40.0	54	50-450	28	Very hard, sanding sealer, urethane blender
A-3614	32.0	NA	200-300	15	Clear tough flexible film, superior block, mar, chemical resistance
SH5-80	40.0	80	10-150	25	Excellent hardness
ME8-16H	45.0	62	30-250	25	Excellent chemical, blush resistance

DELTECH RESINS

THIBAUT & WALKER ACRYLIC EMULSIONS

ParCryl Resin	NV Wt%	Tg°C	Viscosity cps	pH	Stability	Gloss	Description
200	46.5	1	50-500	9-10	Excellent	High	Interior house, masonry paints
250	46.5	1	50-500	9-10	Excellent	High	Caulking compounds, masonry paints
300	46.5	1	50-500	9-10	Excellent	High	Exterior house, masonry paints, tennis courts, roofs
311	46.5	-22	50-500	9-10	Excellent	High	Very flexible, high pigment loading, roof, tennis courts
900	43.0	3	100-600	9-10	Excellent	NA	Rust resistant metal primer, stain resistant primer