



Alberdingk Boley, Inc
 6008 High Point Road
 Greensboro, NC 27407
 Phone: 336-454-5000
 Toll Free: 866-220-4750
 Fax: 336-454-5007
 www.alberdingkusa.com

TECHNICAL BULLETIN

UV CURABLE DISPERSIONS

ALIPHATIC POLYURETHANE AND ACRYLIC COPOLYMER DISPERSIONS

DESCRIPTION

These water based UV curable dispersions produce high quality industrial coatings with outstanding performance. They have extremely low VOC capability without the need for reactive diluents. Excellent adhesion is achieved with low volume shrinkage, and physical drying allows reliable coating of three-dimensional surfaces. Applications include furniture, KCMA, parquet flooring, window frames, plastics, glass, paper, metal and leather.

PRODUCT	SOLIDS (%)	PH	VISCOSITY (cPs)	MFFT (°C)	KOENIG HARDNESS PRIOR UV (sec)	KOENIG HARDNESS AFTER UV (sec)
LUX 250	40	7.2	200	0	20	125
LUX 260	40	7.2	200	0	5	130
LUX 286	40	7.5	100	14	40	100
LUX 399	45	7.0	75	0	5	110
LUX 430	42	7.0	50	0	5	90
LUX 441	40	7.0	200	5	25	150
LUX 481	40	7.5	100	0	25	100
LUX 484	37.5	8.0	100	0	30	95
LUX 515	50	7.0	75	0	Tacky	90
LUX 701	54	7.6	500	0	15	25
LUX 1215	60	7.8	400	0	15	25

UV Curable Dispersions

PRODUCT	BASE	DESCRIPTION	APPLICATIONS
LUX 250	Polyester Polyurethane	Excellent scratch resistance Fast flash off time Excellent chemical and stain resistance Low grain raising Physically drying before cure Good performance in pigmented systems	Furniture Parquet flooring KCMA MDF General plastics
LUX 260	Polyester Polyurethane	Excellent scratch resistance Very good wood warmth Fast flash off time Excellent chemical and stain resistance	Furniture Parquet flooring KCMA MDF General plastics
LUX 286	Polyurethane/ acrylic copolymer	Excellent chemical and stain resistance Excellent adhesion to multiple substrates Good performance in pigmented systems	Parquet flooring Furniture KCMA General plastics
LUX 399	Polyurethane / acrylic copolymer	Excellent all-round performance Very good sanding properties Excellent adhesion to plastics and UV-Cured films Re-emulsifiable Good wood warmth	KCMA General plastics Furniture MDF Sealers
LUX 430	Polyurethane / acrylic copolymer	Good block resistance Good wood warmth Physically drying before curing Re-emulsifiable Very good all-around performance	Furniture KCMA General plastics
LUX 441	Polyurethane / acrylic copolymer	Excellent all-round performance Good sanding properties Excellent chemical resistance Physically drying before cure	KCMA General plastics Furniture MDF Sealers
LUX 481	Polyurethane/ acrylic copolymer	Outstanding chemical resistance Good surface hardness Highest UV-reactivity Good performance in pigmented systems	Furniture KCMA, Metal Coatings General plastics
LUX 484	Polyurethane / acrylic copolymer	Excellent flexibility Very good chemical resistance Good adhesion to multiple substrates Good mar and scratch resistance Good performance in pigmented systems	Furniture Parquet flooring KCMA MDF General plastics
LUX 515	Acrylic copolymer	Good adhesion to multiple substrates Good wood warmth High solids Re-emulsifiable Solvent-free	Furniture general plastics general wood KCMA
LUX 701	Polyester Polyurethane	Very good soft-feel Excellent block resistance Excellent flexibility Physically drying before cure	General Plastics Leather Textiles Wood Coatings Paper Coatings
LUX 1215	Polyester Polyurethane	Excellent soft-feel Excellent flexibility Physically drying before cure	General Plastics Leather Textiles Wood Coatings Paper Coatings