

Technical Data Sheet

Alberdingk[®] LUX 255

Characteristic

Alberdingk[®] LUX 255 is an aqueous, anionic, solvent-free UV curable PUD suitable for clear and pigmented wood and plastic coatings. It has good wood warming, excellent chemical and stain resistance, excellent scratch resistance and very fast water release.

Features:

- Excellent scratch resistance
- Very fast water release
- Quick cure response
- Ultra-low yellowing
- Physically drying before cure
- Optimized for pigmented systems

Specification:

NVW	%	38.0 – 40.0
pH value		7.0 – 9.0
Viscosity	cps	10 - 500

According to:

DIN EN ISO 3251
1.0 g weighed quantity at 105°C
DIN ISO 976
ISO 1652, Brookfield RVT
Spindle 1/rpm 20/factor 5

Further typical data*:

MFFT	°C	approx. 0
Koenig hardness before UV cure	s	20
Koenig hardness after UV cure	s	170

Applications:

- Plastic coatings
- KCMA coatings
- Furniture Coatings
- Field Applied Floor Coatings

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Formulation Proposal - Gloss Topcoat

Pos.	Raw Material	weight	volume	Product	Supplier
1	Alberdingk® LUX 255	767.84	86.96	UV Resin	Alberdingk Boley
2	Foamex 822	3.51	0.41	defoamer	Evonik Tego Chemie
3	Byk 346	2.63	0.32	substrate wetting agent	BYK Chemie
4	Water	93.01	11.17		
5	Irgacure 500	8.77	0.95	photoinitiator	BASF
6	DSX 1514	1.75	0.20	rheology modifier	BASF
		877.50	100.00		

Physical Properties

Wt / Gal (lb / gal): 8.78

VOC (lb / gal):0.33

VOC (g / l):39.3

% solids by weight: 36.3

% solids by volume: 33.0

Test Chemicals	Test Duration	Test Results**
Ethanol (48%)	1 h	5
Ammonia (10%)	1 min	4.5
Coffee	16 h	5
Red Wine	5 h	4
Water	16 h	5

Latest update
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The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

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Storage:

In originally closed containers ALBERDINGK-dispersions are stable when stored at 20°C for 6 months. The recommended temperature-range for storage is 5 - 30°C. Freezing or storage at higher temperatures than 30°C, can affect the viscosity or the average particle size and finally lead to a sedimentation or coagulation. A contamination with bacteria, fungi or algae can damage the product irreversibly.

ALBERDINGK BOLEY Inc. assures, that the data mentioned under "specification" are stable for 6 months after delivery date, if the product is stored under the recommended conditions. A longer storage does not mean that the product is not usable anymore, but we recommend to check the specification data before use. A warranty after 6 months of storage can not be given by ALBERDINGK BOLEY Inc.

Packaging:

drums (460 lbs)
totes (2205 lbs)
as bulk in tank cars, by agreement.

Safety:

For further information on product safety please refer to the actual material safety data sheet.

Notice:

* General information - the values can not be considered as part of the product specification.