

Technical data sheet

ALBERDINGK® LUX 286

Characteristic:

Aqueous, anionic, UV-crosslinkable dispersion based on aliphatic polyurethane and acrylic acid esters copolymer.

Specification:

| | | | |
|----------------|------|-------------|--|
| Solids content | % | 39.0 - 41.0 | According to: ISO 3251 0.5 g weighed quantity at 105°C |
| pH- value | | 7.0 - 8.0 | ISO 976 |
| Viscosity | mPas | 10 - 500 | ISO 2555, Brookfield RVT Spindle 1/rpm 20/factor 5 |

Further typical data*:

| | | | |
|--------------|-------------------|-----------|----------------------|
| MFFT | °C | ca. 14 | According to: |
| Density | g/cm ³ | 1.0 - 1.1 | ISO 2811-1 |
| Solvent-free | | | |

Film properties*:

| | | | |
|---|---|---------|----------------------------------|
| Pendulum hardness (König) after UV-curing | s | ca. 100 | According to: ISO 1522 |
| Pendulum hardness (König) before UV-curing | s | ca. 40 | ISO 1522 |

Highlights:

- physically drying before UV-curing
- excellent coffee resistance in white pigmented lacquers
- very good scratch and chemical resistances
- very high blocking resistance

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Applications:

Radiation curing lacquer with very high chemical and stain resistances for wood, plastic and metal. The dispersion is also crosslinkable with isocyanate (eg. Baydydur XP 2487/1) for Dual-curing lacquers. Especially suitable for pigmented lacquers with good blocking resistance and adhesion.

Curing recommendations:

Photoinitiator (e.g. Omnirad 500 (former Irgacure 500)): 1% on the delivered form.

Belt speed: 5 - 10 m/min., 1 Hg-lamp 80 W/cm

Storage:

In originally closed containers ALBERDINGK-dispersions are stable when stored at 20°C for 6 months after delivery date. 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. The product is only preserved for the transport. For a longer storage time, we recommend to add additional preservative. A warranty for the sterility after storage can not be granted. ALBERDINGK BOLEY GmbH 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 GmbH. The product should be stirred well before use.

Packaging:

plastic drums (120 kg)

one-way container (approx. 1000 kg)

as bulk in tank cars, by agreement.

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Safety:

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

Notice:

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