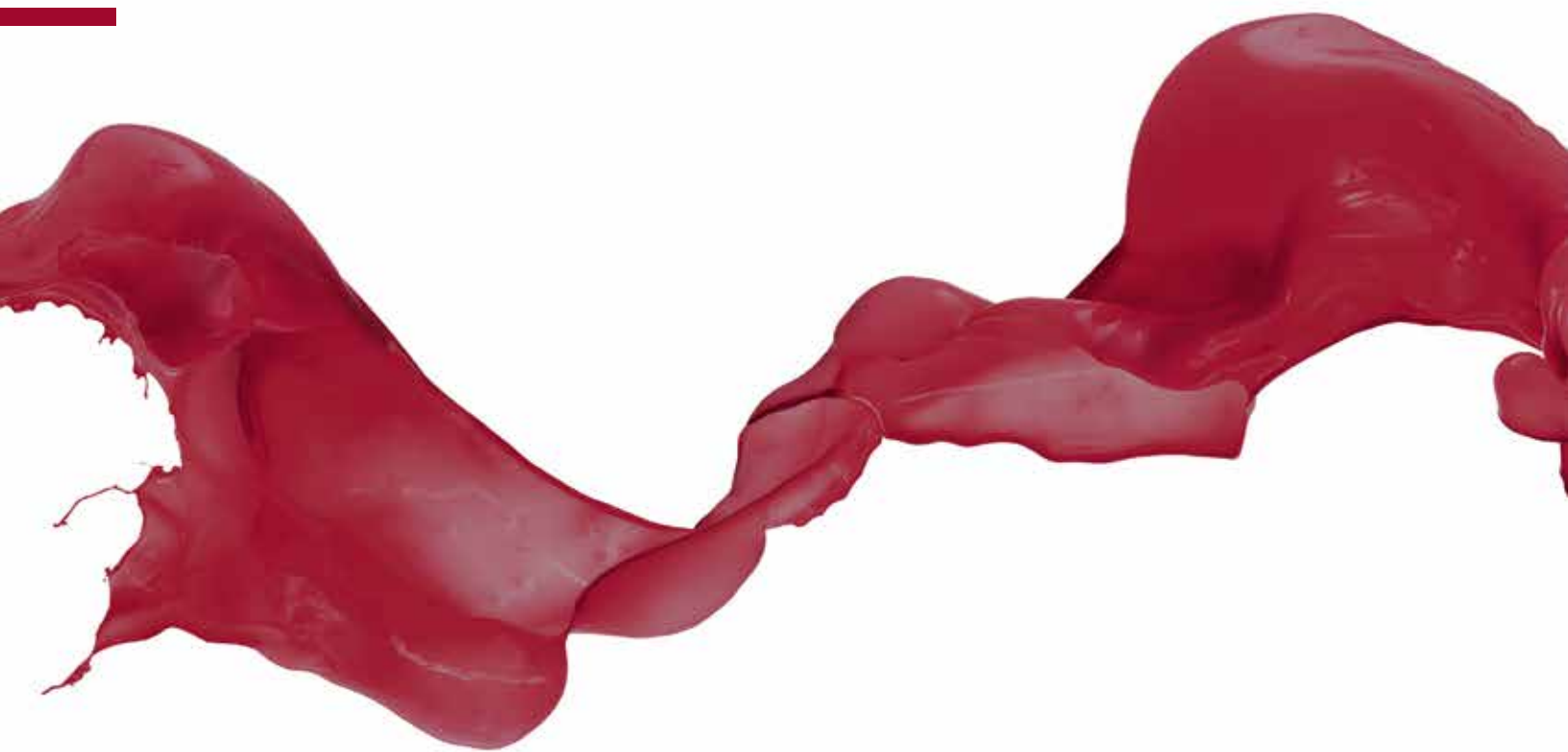


# Water-based UV-curable Dispersions

for Surface Coatings



# Water-based UV-curable Dispersions

Alberdingk® water-based UV-curing  
dispersions for high-quality industrial  
coatings

## Main applications:

- › furniture
- › flooring
- › plastics
- › wood
- › concrete
- › metal
- › glass
- › paper

Customer specific requirements need individual solutions. Please contact us for technical support.

For further information please contact us:

[www.alberdingkusa.com](http://www.alberdingkusa.com)

|  | KCMA | Furniture | Site Applied Flooring | MDF | Exterior Wood Coatings | Primers/Sealers | General Metal Coatings | General Plastic Coatings | Paper | Soft-feel Coatings | Pigmented Coatings | Dual-Curing with Polyisocyanates |
|--|------|-----------|-----------------------|-----|------------------------|-----------------|------------------------|--------------------------|-------|--------------------|--------------------|----------------------------------|
|--|------|-----------|-----------------------|-----|------------------------|-----------------|------------------------|--------------------------|-------|--------------------|--------------------|----------------------------------|

### ALBERDINGK® UV-curable Polyester-Polyurethane Dispersions

|          |   |   |   |   |  |   |   |   |   |   |   |   |
|----------|---|---|---|---|--|---|---|---|---|---|---|---|
| LUX 220* |   | X | X |   |  |   | • | X |   |   | X | X |
| LUX 250  | X | X | X | X |  | X |   | X | X |   | X | X |
| LUX 255* | X | X |   | X |  | X |   | • | X |   | • |   |
| LUX 260  | X | X | X | X |  | X | • |   | X |   | X |   |
| LUX 701  |   |   |   |   |  |   |   |   | X | X |   | X |
| LUX 1215 |   |   |   |   |  |   |   |   | X | X |   | X |

### ALBERDINGK® UV-curable Polyurethane-Acrylic Copolymer Dispersions

|          |   |   |   |   |   |   |   |   |   |  |   |   |
|----------|---|---|---|---|---|---|---|---|---|--|---|---|
| LUX 286  | X | X |   |   |   |   | X | X |   |  | X | X |
| LUX 399  | X | X |   | X |   | X |   | X | X |  | • |   |
| LUX 430  | X | X |   | X |   | X |   | X |   |  | • |   |
| LUX 441  | X | X |   | X |   | X |   | X |   |  |   |   |
| LUX 481  | X | X | X |   |   |   | X | X | X |  | X | X |
| LUX 484  | X | X | X |   | X |   |   | X |   |  | X | X |
| LUX 560* |   | X |   |   |   | X |   | X |   |  |   | • |

### ALBERDINGK® UV-curable Acrylic Dispersions

|         |   |   |  |   |   |   |  |   |   |  |  |   |
|---------|---|---|--|---|---|---|--|---|---|--|--|---|
| LUX 515 | X | X |  | X | • | X |  | X | X |  |  | X |
|---------|---|---|--|---|---|---|--|---|---|--|--|---|

|  | Solids (%) | Viscosity (cps) | pH-Value | MFFT (°C) | Koenig Hardness Before Cure (sec) | Koenig Hardness After Cure (sec) |
|--|------------|-----------------|----------|-----------|-----------------------------------|----------------------------------|
|--|------------|-----------------|----------|-----------|-----------------------------------|----------------------------------|

### ALBERDINGK® UV-curable Polyester-Polyurethane Dispersions

|          |       |          |         |   |    |     |
|----------|-------|----------|---------|---|----|-----|
| LUX 220* | 34–36 | 20–200   | 7.5–9.0 | 0 | 50 | 180 |
| LUX 250  | 39–41 | 10–500   | 6.5–8.0 | 0 | 20 | 125 |
| LUX 255* | 38–40 | 10–500   | 7.5–9.0 | 0 | 20 | 170 |
| LUX 260  | 39–41 | 100–200  | 7.0–8.5 | 0 | 5  | 130 |
| LUX 701  | 53–55 | 300–800  | 7.0–9.0 | 0 | 15 | 25  |
| LUX 1215 | 59–61 | 500–3000 | 7.5–8.5 | 0 | 15 | 25  |

### ALBERDINGK® UV-curable Polyurethane-Acrylic Copolymer Dispersions

|          |       |        |         |    |       |     |
|----------|-------|--------|---------|----|-------|-----|
| LUX 286  | 39–41 | 10–500 | 7.0–8.0 | 14 | 40    | 100 |
| LUX 399  | 44–46 | 10–500 | 6.5–7.5 | 0  | 5     | 110 |
| LUX 430  | 41–43 | 10–500 | 6.5–7.5 | 0  | 5     | 90  |
| LUX 441  | 39–41 | 10–500 | 6.5–7.5 | 5  | 25    | 150 |
| LUX 481  | 39–41 | 10–500 | 7.0–8.0 | 0  | 25    | 100 |
| LUX 484  | 36–38 | 20–200 | 7.0–8.5 | 0  | 30    | 95  |
| LUX 560* | 39–41 | 10–200 | 7.0–8.5 | 0  | tacky | 110 |

### ALBERDINGK® UV-curable Acrylic Dispersions

|         |       |        |         |   |   |    |
|---------|-------|--------|---------|---|---|----|
| LUX 515 | 49–51 | 10–500 | 6.5–7.5 | 0 | 5 | 90 |
|---------|-------|--------|---------|---|---|----|

\* new development

### ALBERDINGK® UV-curable Polyester-Polyurethane Dispersions

|          |  |
|----------|--|
| LUX 220* | Outstanding chemical and stain resistance in transparent and pigmented systems, excellent scratch resistance in coloured systems, hard-elastic                   |
| LUX 250  | Hard, elastic PU dispersion with excellent chemical, scratch and water resistance, fast water release and low grain raising                                      |
| LUX 255* | Hard-elastic UV-dispersion with short flash-off time, high scratch and chemical resistances, high gloss, universal product for transparent and pigmented systems |
| LUX 260  | Excellent wood warming, film transparency and gloss, superior scratch resistance, good re-emulsifiability before UV curing                                       |
| LUX 701  | For soft-feel coatings, excellent block resistance, excellent flexibility, can be further crosslinked with polyisocyanates to create a dual cure coating         |
| LUX 1215 | For soft-feel coatings, excellent flexibility, can be further crosslinked with polyisocyanates to create a dual cure coating                                     |

### ALBERDINGK® UV-curable Polyurethane-Acrylic Copolymer Dispersions

|          |  |
|----------|--|
| LUX 286  | For clear and pigmented coatings with high chemical and stain resistance and very good adhesion to general plastics and metals                       |
| LUX 399  | Very good wood warming, good re-emulsifiability before UV curing, good sandability, very fast water release, good adhesion to general plastics       |
| LUX 430  | Very good block resistance, good sandability, good flexibility, good mar resistance, good re-emulsifiability before UV cure                          |
| LUX 441  | Excellent sanding properties, excellent surface hardness, excellent chemical resistance, good adhesion to general plastics                           |
| LUX 481  | Outstanding chemical and stain resistance, very high crosslink density, excellent surface hardness, excellent block resistance                       |
| LUX 484  | Outstanding flexibility, excellent adhesion to multiple substrates, excellent chemical resistance, excellent scratch and mar resistance              |
| LUX 560* | Economic UV-dispersion for furniture lacquers, with high film filling, wood warming and chemical resistance, good reemulsifiability before UV-curing |

### ALBERDINGK® UV-curable Acrylic Dispersions

|         |  |
|---------|--|
| LUX 515 | Extremely high gloss, very good wood warming, good chemical resistance, good scratch resistance and excellent adhesion |
|---------|--|

\* new development

**Exemption clause:**

The aforesaid information is based on our present state of knowledge and shall inform on our products and their application possibilities. It is not intended to assure certain characteristics of the products and their suitability for precise application fields. Please consider possible industrial property rights.

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