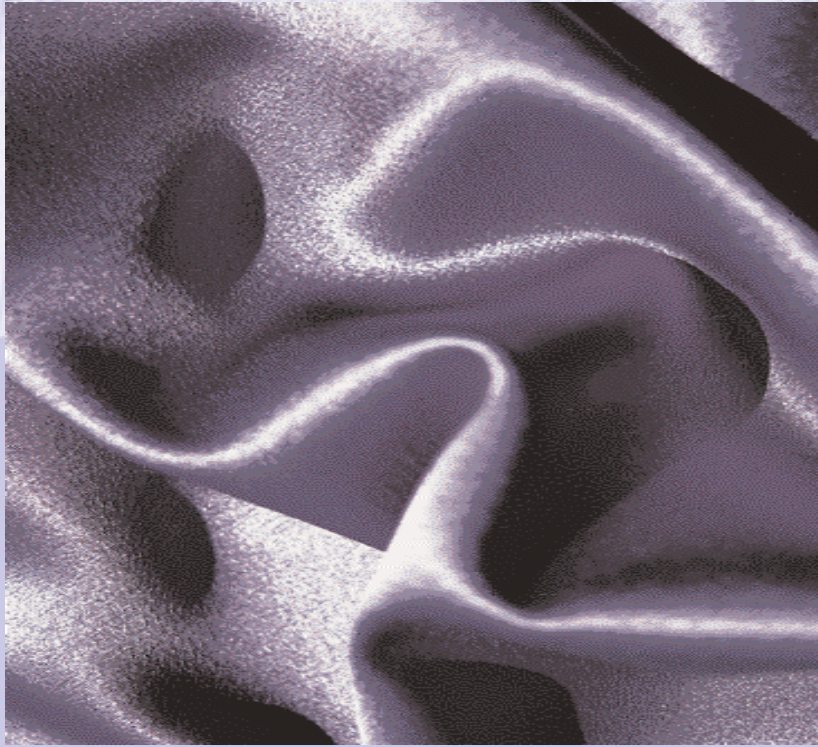


# UV-LACQUERS



Also for the trade, Hesse UV- and Hydro UV-Systems gain in importance as substitute for solvent-containing lacquers with regard to the measures for VOC reduction, like the European VOC- and ChemVOCFarbV-regulation. UV Lacquers are coating materials, which cure within seconds to extremely resistant surfaces by means of UV-rays of a specific wave range.

For your efficient, environment- and energy conscious production processes, we have monomer-free Hesse UV lacquers for roller coating and Hesse Hydro-UV Multicoat lacquers for spray application.

**Further details and special advices regarding all UV-Lacquers are available in the actual technical information- and safety data sheets.**

## Hesse HYDRO-UV Multicoat lacquer

Water-dilutable, UV-curing lightfast multicoat lacquer with strong body for open-to closed pore coatings with physical initial drying and perfect accentuation of the pores. Solvent-free, pot life-independent alternative against CN- and PUR lacquers.

### Processing example

Serial production of table tops, beech.

- Wood sanding (graduated) 150/180/220

- Application of 110-120 g/m<sup>2</sup> Hydro-UV Multicoat lacquer HUE 834 by spray robot
- Evaporation/forced drying: 5 min circulating air, 4 min jet drying 50°C (drying alternatively with infrared, dehydrated air or other applicable drying media)
- UV-curing: Hg High pressure lamp, 80 W/cm, V=5m/min
- Intermediate sanding with grain 400
- Finish with 110-120 g/m<sup>2</sup> - drying as above

### Technical data

Delivery viscosity: 43-47 sec/DIN 4 mm/20°C  
Non-volatile content: 36-37% depending on degree of gloss

### Application

Air spraying (cup):  
Nozzle size: 1,7-2,0 mm  
Spray pressure: 2,5-3,5 bar  
Airless / Airmix:  
Nozzle size: 0,28-0,33 mm  
Spray pressure: 90-140 bar  
Atomizing pressure: 1-2 bar  
UV-curing: HG-High pressure lamp, 80 W/cm, V = 5m/min

### Order information

Order no.:  
Mat **HUE 832**  
Semi mat **HUE 834**  
Silky gloss **HUE 837**  
Packaging size: 25 litres  
Efficiency per litre: 6-8 m<sup>2</sup> per work step including overspray  
HYDRO Special cleaning agent: **HV 694**  
For rinsing and cleaning of the tools  
HYDRO Cleaning agent: **HV 697**  
For removal of dried lacquer rests

## Hesse-UV-Base coat: UG 700

Universal, monomer-free base coat for roller coating, for open- to close pore coatings. Low consumption and minimum material losses by the high application efficiency of the roller coating procedure. High filling capacity, good sandability and recoatability with suitable Hesse UV, Hesse-Hydro, PUR- and CN-lacquers.

### Processing example

- Beech, doors: Proper sanding of the raw wood
- 1 x 20 g/m<sup>2</sup> Hesse-UV-Base coat UG 700
  - Gelling with 15 m/min 1 Hg-lamp, 80 W/cm
  - 1 x 15 g/m<sup>2</sup> Hesse-UV-Base coat UG 700
  - Curing with 5 m/min 1 Hg-lamp, 80 W/cm
  - Sanding with grain 400, dust-removal Further: see UV-Top coats

### Technical data

Delivery viscosity: 94-100 sec/6 mm/20°C  
Non-volatile content: 98,8 %

### Application

Roller coating: Hard-rubber flat roller  
Application quantity: 10-25 g/m<sup>2</sup>  
Further: See UV-Top coats

### Order information:

Order No. **UG 700**  
Packaging size: 25 litres

## Hesse UV-Top coat UU 724 Diamond Finish

Extremely scratch resistant top coat for living furniture, doors, panels etc. in the interior sector.

### Processing example

- 1 x 6 g/m<sup>2</sup> Hesse-UV-Top coat UU 724
- Curing with 5 m/min 1 Hg-lamp, 80 W/cm

### Technical data

Delivery viscosity: 36-44 sec/6 mm / 20°C  
Non-volatile content: 98-99 %

### Application

Roller coating: Hardrubber flat roll  
Application amount: 6-15 g/m<sup>2</sup>

### Order information:

Order no.  
Semi mat: **UU 724**  
Packaging size: 25 litres

## Hesse UV-Top coat UU 715

UV-curing top coat for all usual kinds of wood in the interior sector. High transparence, optimum levelling and very good feel.

### Processing example

See processing example of Hesse UV-Diamond Finish

### Technical data

Delivery viscosity: 62-68 sec/4 mm / 20°C  
Non-volatile content: 97 %

### Application

Roller coating: Hardrubber flat roll  
Application amount: 3-6 g/m<sup>2</sup>

### Order information:

Order no.  
Semi mat: **UU 715**  
Packaging size: 25 litres

## Hesse-UV-Multicoat lacquer UE 733

UV-curing multicoat lacquer for open- to close pore coatings on all usual kinds of wood, for living furniture, doors, stairs, panels etc. in the interior sector. High transparence, optimum levelling and very good touch.

### Processing example

- Beech, shelf boards: Proper sanding of the raw wood
- 1 x 20 g/m<sup>2</sup> Hesse-UV-Multicoat lacquer UE 733
  - Gelling with 15 m/min 1 Hg-lamp, 80 W/cm
  - 1 x 15 g/m<sup>2</sup> Hesse-UV-Multicoat lacquer UE 733
  - Curing with 5 m/min 1 Hg-lamp, 80 W/cm
  - Sanding with grain 400
  - Dust-removal
  - 1 x 6 g/m<sup>2</sup> Hesse-UV-Multicoat lacquer UE 733
  - Curing with 5 m/min 1 Hg-lamp, 80 W/cm

### Technical data

Delivery viscosity: 130-150 sec / 6 mm / 20°C  
Non-volatile content: 99 %

### Application

Roller coating: Hardrubber flat roll  
Application amount: 6 g/m<sup>2</sup> (top coat) 20 g/m<sup>2</sup> (base coat)

### Order information:

Order no.  
Silky mat: **UE 733**  
Packaging size: 25 litres