

## Technical information

# Hesse PU Glass lacquer DE 4259x(gloss level)-0040

Mixing ratio (by volume): 5 : 1 PU Hardener DR 4076-0001



## Product description

DE 4259x(gloss level)-0040 is a transparent, two-component, polyurethane acrylate resin glass lacquer that is characterised by its outstanding adhesion on glass, even on textured glass. The hardened surface is also highly resistant and light fast. This product can additionally be used as an adhesion agent between glass and other polyurethane lacquers.

## Areas of application

For all interior fixtures and fittings, including high demand areas such as kitchens and bathrooms.

## Substrate material








- Dark, fine pored hardwood
- light deciduous woods with fine pores
- Engineered veneer/fineline
- dark deciduous woods with coarse pores
- light deciduous woods with coarse pores
- Conifers

## Surface Preparation

### Surface preparation

Substrate preparation is decisive for adhesion of the coating. The glass surface to be coated must be clean and grease-free. Use Hesse Cleaning thinner ZD 101 to carefully clean the surface prior to application.

## Application

Application		Spray nozzle size	Spray pressure	Atomizing pressure
2C line				
Airless		0,23 - 0,28 mm		
Airless low pressure				
Airmix		0,23 - 0,28 mm	60 - 100 bar	2 - 2,5 bar
Compressed air spraying		1,8 - 2 mm	1,8 - 2 bar	
High-performance automatic spraying unit				
Automatic spray gun				
Spraying robot				





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#### Times

Pot life	 8 h / 20 °C
Drying	 16 h / 20 °C
Stackable after	 16 h / 20 °C
Complete drying	 7 d / 20 °C
Drying machine	Jet dryer
Drying temperature	40 °C
Drying time	1 min
Notes on drying	Das Equipment und die genauen Trocknungsparameter müssen jeweils anhand der Gegebenheiten vor Ort ermittelt werden!

#### Processing instructions

DE 4259x(gloss level)-00040 can be used to coat behind glass in critical wet areas like shower enclosures.

#### Particular instructions














The addition of 1 - 5 % Colour concentrate for solvent-containing lacquers CF or ZD 1-(colour tone) can be used to create glazed tinting. It should be noted in this regard that the lacquer application amount, the application method and the drying conditions influence the effect and colour tone of glass coatings.

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Flow time (+/- 15%)	 28 s / DIN4
Yield per coat	 6 - 9 m <sup>2</sup> /l The spreading rate is heavily dependent on the type of application. The specifications relate to a liter of ready-for-use product, if necessary including hardener and thinner.
Proportion of renewable raw materi-	 0.335 %
Non-volatile proportion	 25.6 - 26.9 %
VOC FR	C
conditions of transport	 frost-free - up to max. 35 °C
Shelf life in weeks	 52
Storage temperature	 16 - 40 °C
Number of coats (max)	 3
Amount per layer (minimum)	 100 g/m <sup>2</sup>
Amount per layer (max)	 150 g/m <sup>2</sup>
Total application volume	 450 g/m <sup>2</sup>
Mixing ratio (by volume)	 5 : 1 PU Hardener DR 4076-0001
Mixing information (gravimetric)	 100 : 22 PU Hardener DR 4076-0001

## Particular properties / testing standards

Sign	Product standard / basis
	PVC-resistant
	Formulation is free of: wood preservatives, toxic heavy metals, phthalate plasticizers, formaldehyde, CMR substances in Categories 1A + 1B and volatile aromatic and halogenated organic compounds.
	DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)

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## Sample process

Contract installation of a glass partition with a marble-effect coating

Surface preparation: carefully clean and remove grease from the glass using Hesse Cleaning thinner ZD 101

Basecoat: 1 x 120 - 150 g/m<sup>2</sup> Hesse PU Glass lacquer DE 42597-0040, mixing ratio (by volume) 5 : 1 with PU Hardener DR 4076-0001 and the addition of 10 - 20 % Thinner DV 490 or DV 4900 in relation to the lacquer/hardener mixture

Drying: at least 16 h / 20 °C

Prepare the desired colours for the marbling as follows: Hesse UNA-COLOR DB 45245-(colour tone), mixing ratio (by volume) 5 : 1 with PU Hardener DR 4076-0001 and the addition of Thinner DV 490 or DV 4900 at a ratio of 1 : 5 in relation to the lacquer/hardener mixture.

Creating the effect: pat or dab on the different colours in irregular lines. Use crunched up greaseproof paper or preferably a natural sponge to moisten the surface with Hesse Marbling solution DV 4991 and apply it to the surface until the desired effect is achieved.

Drying: 1 - 2 h / 20 °C

Top coat: 1 x 100 - 120 g/m<sup>2</sup> of Hesse UNA-COLOR DB 45245-(colour tone), mixing ratio (by volume) 5 : 1 with PU Hardener DR 4076-0001 and the addition of 10 - 20 % Thinner DV 490 or DV 4900 in relation to the lacquer/hardener mixture

Drying: at least 16 h / 20 °C

Packable: at least 48 h / 20 °C

Ready for assembly or gluing: after at least 7 d / 20 °C

## Accessories

	Order number	Product description
<b>hardeners</b>	DR 4076-0001	PU Hardener
<b>Thinners</b>	DV 490	PU Thinner
	DV 490	PU Thinner
	DV 4900	PU Thinner
	DV 494	PU Thinner
	DV 4994	PU Thinner
<b>Retarder</b>	DV 499	Universal Retarder
	DV 4909	PU Retarder
<b>Equipment cleaner</b>	RV 1	Cleaning thinner

## General instructions on workmanship

PU Glass colour lacquers should not be applied and dried at material and room temperatures below 18 °C und 40 % RH; ideal values: 20 - 25 °C, 50 - 65 % RH. Deviations result in issues with drying or curing. Old lacquer / hardener mixtures impair the surface quality (bond / resistances). The final hardness of the glass coating will be achieved after one week given proper storage (at least 20 °C room temperature). Conduct a trial coating under practical conditions as necessary!

Our technical information is continually adapted to keep up to date with the latest technology and statutory regulations. The indicated values are no specification, but typical product data. The latest version is always available online at [www.hesse-lignal.de](http://www.hesse-lignal.de) or talk to your local account manager. This information is for advice and is based on the best knowledge available and careful research in line with the current state of the art. This information cannot be held as legally binding. We also refer you to our terms and conditions of business. Material safety data sheet is provided in accordance with EC regulation no. 1907/2006.

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