

Technical information

Hesse PU Basecoat DG 4717-0004

Mixing ratio (by volume): 5 : 1 PUR Hardener DR 4077

>Product description

Two-component PU acrylic resin primer, particularly full, transparent, free from aromatic compounds, light-fast. This product can be used on bleached woods. Free from phthalate softeners and therefore also suitable for coating children's toys.

>Areas of application

In the complete interior fittings as well as kitchen and bathrooms with suitable final lacquering for filled lacquer structures on various types of wood. The PU acrylic resin primer can also be thinned and used for MDF edge insulation.

>Surface Preparation

Surface preparation	Clean, dry wood, dependent upon wood type and method of application.
Substrate sanding grits from-to	150 - 180
Lacquer sanding (grit) from - to	320 - 400

>Finishing

Finishing	After sufficient drying, can be re-coated using suitable light-fast Hesse polyurethane multi-coat, top coat and brilliant lacquers.
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>Times

Usage time	1,5 - 2 h / 20 °C
Drying	6 h / 20 °C
Stackable after	> 16 h / 20 °C
Complete drying	7 d / 20 °C

>Application

Application	Nozzle size in mm	Spray pressure in bar	Atomising pressure in bar
Spraying			
2C line			
Airless	0,23 - 0,28	100 -150	
Airless low pressure			
Air mix	0,23 - 0,28	60 - 100	2,0 - 2,5
Compressed air spraying	1,8 - 2,0	1,8 - 2,0	
High-performance automatic spraying unit			
Automatic spray gun			
Spraying robot			

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Flow time (+/- 15 %)	33 s / DIN 53211 - 4 mm
Appearance	colourless
Density series kg/l	0.954
Yield per coat	6 - 10 m ² /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.
Form of delivery	fluid
Non-volatile content series %	38
VOC EU %	62 %
VOC FR	A+
Storage temperature	16 - 25 °C
Shelf life in weeks	52
Working temperature	20 °C
Number of coats (max)	4
Amount per layer (minimum)	100 g/m ²
Amount per layer (max)	150 g/m ²
Total application volume	600 g/m ²
Mixing ratio (by volume)	5 : 1 PUR Hardener DR 4077
Mixing ratio (gravimetric)	100 : 20 PUR Hardener DR 4077

>Ordering information

Order number	Gloss level 60° (Gloss)	Container Size
DG 4717-0004	-	5 l, 25 l

>Hardeners

Order number	Product description	Container Size
DR 4077	PUR Hardener	1 l, 2.5 l, 5 l

>Thinners

Order number	Product description	Container Size
DV 4900	PU Thinner	1 l, 5 l, 15 l, 25 l

>Retarder

Order number	Product description	Container Size
DV 4909	PU Retarder	1 l, 5 l, 25 l

>Equipment cleaner

Order number	Product description	Container Size
RV 1	Cleaning thinner	5 l, 15 l, 25 l

>Particular instructions

For use as MDF edge sealant beneath coloured lacquer systems, thin the lacquer/hardener mixture with 20 - 30 % thinner. After prior cutting back with grit 320, always coat again on the same day. After sufficient drying and prescribed sanding, Hesse PU Primer DG 4717-0004 can be coated over with, e.g. Hesse PU Multicoat Lacquers-DE 4259x(gloss level) or DE 4503x(gloss level).

>Sample process

The coating process and the precise treatment parameters are adapted in each case to the respective application and drying conditions and can be found in the customer-specific process descriptions (surface techniques).

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>General information

PU lacquers should not be applied and dried at material and room-temperatures below 18 °C and 40 % RH. Ideal values are: 20 - 25 °C, 50 - 65 % RH. Deviations will result in drying or hardening errors. In order to avoid adhesion problems, please sand the PU lacquered surfaces before applying fresh lacquer and apply lacquer to the sanded surfaces as soon as possible. Old lacquer and hardener mixtures affect the surface quality (adhesion/resistance). Freshly bleached substrates must undergo intermediate drying for at least 48 h at 20 °C before coating with suitable PU lacquers. If stored correctly (at least 20 °C room temperature), the final hardness of the coating is achieved after a week.

Please apply a test coat under real conditions!

>Particular properties and/or testing standards

Test standard / basis	Testing laboratory	Mark	Report	No.
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.	HESSE			

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 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. Safety data sheet is provided in accordance with EC regulation no. 1907/2006.