

Technical information

Hesse FANTASTIC-FILL DP 4755-9343

Mixing ratio (by volume): 10 : 1 PU Hardener DR 4071

Product description

FANTASTIC-FILL is an acrylate-based polyurethane isolation primer with excellent body and remarkable surface smoothness, which in parallel optimises sanding characteristics and shortens the sanding process. Its application-friendly thixotropy also facilitates application on edges and vertical components, without negatively impacting levelling on horizontal surfaces. Even after brief drying, a surface treated with FANTASTIC-FILL can easily be lacquered from the rear and stored in a trolley. FANTASTIC-FILL has deliberately been developed for process-oriented, powdery manual and machine sanding.

Areas of application

FANTASTIC-FILL can be used for shopfitting and on all interior fixtures and fittings, including in kitchens and bathrooms and the furnishing of ship interiors. Depending on application method, FANTASTIC-FILL can also be used in different hardening versions.

Area of application

- Internal fit-out
- Kitchen and bathroom
- Furniture
- The fitting out of ship interiors
- Special applications

Substrate material

- Dark, fine pored hardwood
- dark deciduous woods with coarse pores
- light deciduous woods with fine pores
- light deciduous woods with coarse pores
- Engineered veneer/fineline
- Conifers
- Hardboard
- HDF
- MDF
- Particle board
- ABS
- PVC hard/soft
- Light metal/aluminium
- Steel/iron
- Zinc/galvanized
- suitably pre-primed
- Priming foil
- Melamine foil
- Paper foil

Surface Preparation

Surface preparation

Clean, dry wood, depending on species and application method. Perform cleaning by sanding on foil or melamine before coating.

Substrate sanding grits



150 - 320

Lacquer sanding grit



320 - 400

Comments on sanding



In case of direct coating on cleaned and sanded foils, please make a test coating to check the adhesion!

Sanding with 400 - 600 grit is recommended before applying a final coat of high gloss finish.



For more information on Order information, please visit our website, contact our account managers and field service representatives, or contact your specialist dealers.

Technical information





Hesse FANTASTIC-FILL DP 4755-9343

Mixing ratio (by volume): 10 : 1 PU Hardener DR 4071

Application

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

Times

Pot life	 8 h / 20 °C
Usage time	 8 h / 20 °C
Drying	 2 h / 20 °C
Complete drying	 7 d / 20 °C

Finishing

Finishing After sufficient drying and lacquer sanding, it can be combined with almost all PU lacquers.

Technical information

Hesse FANTASTIC-FILL DP 4755-9343

Mixing ratio (by volume): 10 : 1 PU Hardener DR 4071



Particular instructions

A mixing ratio (by volume) of 10 : 1 / (by weight) 100 : 7 with PU Hardener DR 4071 means that FANTASTIC-FILL can be universally used with isolating filler properties. FANTASTIC-FILL in this hardening can also be used on the following sanded metals from which any grease has been removed: iron, galvanized iron, V2A sheet steel and aluminium. And additionally on ABS and PVC plastics after careful surface sanding and cleaning. Deviating metals and plastics will require testing. Apply a trial coating as necessary.

A mixing ratio (by volume) of 10 : 1 / (by weight) 100 : 7 with PU Hardener DR 4070 means that FANTASTIC-FILL can be applied on light and dark woods (except exotic species) and a substrate of laminated MDF or chipboard with ABS or PVC edge coating. Application on bare MDF surfaces and edges is possible using a mixing ratio (by volume) of 10 : 1 / (by weight) 100 : 7 with PU Hardener DR 4071 or (by volume) 5 : 1 / (by weight) 100 : 14 with DR 4070!

A mixing ratio (by volume) of 3 : 1 / (by weight) 100 : 24 with PU Hardener DR 4076-0001 means that FANTASTIC-FILL can also be used as an isolating filler. Without the addition of thinner, FANTASTIC-FILL with DR 4076-0001 is Decopaint compliant and thus meets ChemVOC FarbV.

This product may only be combined with other approved and technically suitable products when used as per the latest version of SOLAS 74 Reg. II-2/3, II-2/5, II-2/6 and X/3, as amended, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7, IMO Resolution MSC.97(73)-(2000 HSC-Code) 7, IMO MSC/Circ. 1120. The maximum application amount in wet film when used with DP 4755-9343 as a flame-retardant coating for seagoing vessels is 100 g/m².

On MDF substrates: Thick boards that have been created by gluing together several thinner boards are, due to the variance in tension, susceptible to edge ridging. It is better to select a single MDF board of the appropriate thickness. Panels that have been glued together should always be sanded flat at the edges and colourlessly pre-insulated. Any water introduced by gluing must be allowed to evaporate prior to coating.

"A risk assessment was undertaken according to Directive 2014/90/EU, Annex II, Section 3. This coating does not pose a physical risk to health nor a risk to the environment when cured and dried."














For more information on Order information, please visit our website, contact our account managers and field service representatives, or contact your specialist dealers.

Technical information






Hesse FANTASTIC-FILL DP 4755-9343

Mixing ratio (by volume): 10 : 1 PU Hardener DR 4071

Technical data

Flow time (+/- 15%)	 60 s / DIN6
Yield per coat	 4 - 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.
Proportion of renewable raw material	 0 %
Non-volatile proportion	 62.4 %
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)	 4
Amount per layer (minimum)	 140 g/m ²
Amount per layer (max)	 350 g/m ²
Total application volume	 MAX 800 g/m ²
Mixing ratio (by volume)	 10 : 1 PU Hardener DR 4071
Mixing information (gravimetric)	 100 : 7 PU Hardener DR 4071

Particular properties / testing standards

Sign	Product standard / basis
	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.
	Quality Assurance System Certificate (Module D); Directive 2014/90/EU (Marine Equipment Directive)
	Flame retardant to B1 according to DIN 4102; on suitable substrates.
	Saliva and sweat resistance according to DIN 53160 Parts 1 and 2: no discolouration (Level 5)
	Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials

For more information on Order information, please visit our website, contact our account managers and field service representatives, or contact your specialist dealers.

Technical information

Hesse FANTASTIC-FILL DP 4755-9343

Mixing ratio (by volume): 10 : 1 PU Hardener DR 4071



Sample process

Laminated MDF cabinet front in RAL 9016, matt

Surface sanding: 320 - 400 grit (dust removal)

Edge and profile sanding: 150 - 180 grit (dust removal)

Basecoat: 1 x 150 - 200 g/m² Hesse FANTASTIC-FILL DP 4755-9343, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071 and the addition of 15 % DV 4900 / DV 490 Thinner to the lacquer/hardener mixture

Drying: > 2 h / 20 °C, preferably 16 h / 20 °C

Filler sanding: 320 - 400 grit (dust removal)

Basecoat: 1 x 150 - 200 g/m² Hesse FANTASTIC-FILL DP 4755-9343, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071 and the addition of 15 % DV 4900 / DV 490 Thinner to the lacquer/hardener mixture

Drying: > 2 h / 20 °C, preferably 16 h / 20 °C

Filler sanding: 320 - 400 grit (dust removal)

Colour and top coat: 1 x 120 - 180 g/m² Hesse FANTASTIC-COLOR DB 48882-9016, mixing ratio (by volume) 10 : 1 with Hesse PU Hardener DR 4071 and the addition of 10 - 30 % DV 4900 / DV 490 Thinner to the lacquer/hardener mixture

Complete drying: > 16 h / 20 °C

Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
DP 4755-9343	WEISS		

Accessories

	Order number	Product description
hardeners	DR 4071	PU Hardener
Thinners	DV 4900	PU Thinner
	DV 4935	PU Special thinner
Retarder	DV 4909	PU Retarder
Equipment cleaner	RV 1	Cleaning thinner

General instructions on workmanship

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!

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

For more information on Order information, please visit our website, contact our account managers and field service representatives, or contact your specialist dealers.