

>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.

>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 from-to	150 - 320
Lacquer sanding (grit) from - to	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.

>Finishing

Finishing	FANTASTIC-FILL can be recoated after adequate drying and the specified sanding using the following Hesse colour ranges: DB 4524x(gloss level)-(colour tone), DB 4520x(gloss level)-(colour tone), DB 4888x(gloss level)-(colour tone). FANTASTIC-FILL can also be used beneath colour lacquers in the Hesse high gloss range DB 44099-(colour tone). Albeit Hesse PU Isolating filler DP 491-9343 / DP 4791-9343 would be the first choice for the best results beneath high gloss. Moreover, after prior examination of the results, it is also possible to apply a top coat using most common coloured paints.
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>Times

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

Technical information

Hesse FANTASTIC-FILL DP 4755-9343

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

>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	2,0 - 2,5	1,8 - 2,0	
High-performance automatic spraying unit			
Automatic spray gun			
Spraying robot			

>Technical data

Flow time (+/- 15 %)	60 s / DIN 53211 - 6 mm
Appearance	opaque
Density series kg/l	1.402
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.
Form of delivery	fluid
Non-volatile content series %	62
VOC EU %	38 %
VOC FR	C
Storage temperature	16 - 40 °C
Shelf life in weeks	52
Working temperature	20 °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	800 g/m ²
Mixing ratio (by volume)	10 : 1 PU Hardener DR 4071
Mixing ratio (gravimetric)	100 : 7 PU Hardener DR 4071

>Ordering information

Order number	Colour tone	Gloss level 60° (Gloss)	Container Size
DP 4755-9343	WEISS	-	7 kg, 25 kg

>Hardeners

Order number	Product description	Container Size
DR 4071	PU Hardener	0.1 l, 0.5 l, 1 l, 2.5 l, 5 l, 15 l

>Thinners

Order number	Product description	Container Size
DV 490	PU Thinner	1 l, 5 l, 15 l, 25 l
DV 4900	PU Thinner	1 l, 5 l, 15 l, 25 l
DV 4935	PU Thinner	5 l, 15 l, 25 l



>Retarder

Order number	Product description	Container Size
DV 499	Universal retarder	1 l, 5 l, 10 l, 15 l, 25 l
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

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 74/88 Regulations II-2/3, II-2/5 and II-2/6, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7 and IMO Resolution MSC.97(73)-(2000 HSC-Code) 7. 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."

>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)


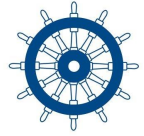



Colour and top coat: 1 x 120 - 180 g/m² Hesse FANTASTIC-COLOR DB 48882-9016, mixing ratio (by volume) 10 : 1 with Hesse PU Hardener DR 4071 and the addition of 10 - 30 % DV 4900 / DV 490 Thinner to the lacquer/hardener mixture

Complete drying: > 16 h / 20 °C

>General information

PU lacquers should not be applied or dried at material and room temperatures of less than 18 °C and 40 % RH, ideal values: 20 - 25 °C, 50 - 65 % RH. Deviations will result in drying or curing faults. To avoid adhesion problems, please sand PU lacquered surfaces before applying fresh lacquer and apply lacquer to these sanded surfaces as soon as possible. Old lacquer/hardener mixtures will affect the surface quality (adhesion/resistance). If stored correctly (at least 20 °C room temperature), complete hardening 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			
EC type examination certificate (module B); coating agent for seagoing vessels according to IMO Resolution MSC.307(88)-(FTP-Code 2010).	Trade association transport and traffic; Ship Safety Division, Hamburg		Approval No. U.S. Coast Guard Approval No.	116.504 164.112/ EC0736/116.504
Flame retardant to B1 according to DIN 4102; on suitable substrates.	MPA-Stuttgart		Test certificate no. certificate of compliance	P-BWU03-I-16.5.418 (DB 4885-(colour tone)) ÜZ-BWU03-I 16.2.866
Saliva and sweat resistance according to DIN 53160 Parts 1 and 2: no discolouration (Level 5)	HESSE			
Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials	MPA-Stuttgart		Classification:	B-s1, d0 (DB 4885-(colour tone))

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.