

Technical information

Hesse PU PLANET-STONE basecoat clear DB 48900-0901

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



Product description

The two-component Basic lacquer PU PLANET-STONE DB 48900-0901 is mixed with one of the PLANET-STONE stone powders and applied to a substrate. This creates a cover layer with real stone that is similar in visual effect, as well as mechanically, to solid stone. The choice of the PLANET-STONE stone powder, the colour of the substrate, the degree of sanding and the choice of top coat enable various effects to be achieved, from rough to polished stone with various degrees of gloss, from matt to high gloss.

PLANET-STONE offers a variety of benefits compared to real stone, both in processing and maintenance. Coating materials in the most varied forms with a thin layer of real stone makes extremely diverse uses possible.

Hesse PLANET-STONE is also available in HYDRO-Variante. For further information on this, please see the Technical Information: Hesse HYDRO PLANET-STONE Basic lacquer clear HE 65192.

The stone powders are available in various colours and effects. For further information, see "Accessories" section.

Areas of application

For all interior fittings and yacht building, tables and worktops, stairs and kitchen splashbacks.

Substrate material

- Dark, fine pored hardwood
- dark deciduous woods with coarse pores
- bleached
- light deciduous woods with fine pores
- light deciduous woods with coarse pores
- Engineered veneer/fineline
- Conifers
- Hardboard
- HDF
- MDF
- ABS
- Priming foil
- Melamine foil

Surface Preparation

Surface preparation

Coat the substrate, e.g. MDF, with FANTASTIC-COLOR DB 48885-(colour tone). The colour of the substrate has an effect on the colour of the final result, and must therefore be chosen carefully.

Substrate sanding grits



220 - 320



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 PU PLANET-STONE basecoat clear DB 48900-0901

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

Application

Application	Spray nozzle size	Spray pressure	Atomizing pressure
2C line			
Airless			
Airless low pressure			
Airmix			
Compressed air spraying	5 - 5 mm	3 - 4 bar	
High-performance automatic spraying unit			
Automatic spray gun			

Finishing

Finishing	Apply FANTASTIC-CLEAR DE 4877x(gloss level) in one or more layers in a gloss level of your choice.
-----------	--

Processing instructions

First mix the Basic lacquer with the hardener. Then add the PLANET-STONE Powder in a ratio by weight of 50 to 60 parts powder to 50 to 40 parts lacquer/hardener mixture. Stir everything well. Adding thinner is not necessary. Apply the mixture in several thin layers with short initial drying to avoid runs until the desired visual effect has been achieved.

Alternative procedure:

The object may also be lacquered only with Basic lacquer and then turned in a container with stone powder whilst still wet, or sprinkled directly.

Processing with Airmix, Airless or 2C line is only possible if the basecoat is painted without the PLANET-STONE powder.

After hardening, the PLANET-STONE layer is coated within 24 h with one or more layers of FANTASTIC-CLEAR DE 4877x(gloss level), with sanding between layers to achieve a particular degree of smoothness/roughness. You can choose between a very rough up to a smooth, polished surface. The gloss level of the top coat naturally also contributes to the desired final effect.

PLANET-STONE is a natural product and the colour tone may vary accordingly. Sufficient material for an item should therefore be ordered. With subsequent deliveries, differences in colour tone are possible.

Particular instructions

Preparation of the substrate and mixing and processing all basic lacquers and stone powders requires special knowledge. Our responsible sales representatives will be pleased to advise you. In addition to application by spraying, other methods of application are also possible. The application method you choose depends on the objects to be treated and the possibilities in situ. Our sales representatives can advise you on this too.













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 PU PLANET-STONE basecoat clear DB 48900-0901

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

Technical data

Flow time (+/- 15%)		30 s / DIN4
Proportion of renewable raw materi-		0.36 %
Non-volatile proportion		24.1 %
VOC FR		A+
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 ²
Amount per layer (max)		150 g/m ²
Total application volume		450 g/m ²
Mixing ratio (by volume)		10 : 1 PU Hardener DR 4071
Mixing information (gravimetric)		100 : 11 PU Hardener DR 4071

Sample process

PU PLANET-STONE Saturn

Substrate: MDF sanded 180 - 280

Finishing spray application: 1 x FANTASTIC-COLOR DB 48885 in the desired colour tone

Mixing ratio (by volume): 10 : 1 with Hardener DR 4071, dilute with 20 - 30 % Thinner DV 4900

Drying: 4 h RT 20 °C

Mix PLANET-STONE:

- + 60 parts PLANET-STONE powder Saturn ZD 4145
- + 40 parts PU PLANET-STONE Basic lacquer clear DB 48900-0901
- + No thinner necessary
- + Coat the mixture in several thin layers

Flow cup gun: nozzle 5 mm, atomising air 3 - 4 bar

Allow to dry for at least 24 h / 20 °C

Sanding: to desired roughness grain 150

Coating: FANTASTIC-CLEAR DE 4877x(gloss level) in one or more layers with intermediate drying for 2 h. Depending on the desired gloss, the last two steps (sanding and coating) may be repeated several times.

Allow to dry for at least 24 h / 20 °C

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.

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 PU PLANET-STONE basecoat clear DB 48900-0901

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



Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
DB 48900-0901		10	matt

Accessories

	Order number	Product description
hardeners	DR 4071	PU Hardener
Thinners	DV 4900	PU Thinner
	DV 4935	PU Special thinner
Additives and care products	ZD 4139	PLANET-STONE powder MARS
Additives and care products	ZD 4140	PLANET-STONE powder PLUTO
Additives and care products	ZD 4141	PLANET-STONE powder URANUS
Additives and care products	ZD 4142	PLANET-STONE powder VENUS
Additives and care products	ZD 4143	PLANET-STONE powder MERCURY
Additives and care products	ZD 4144	PLANET-STONE powder JUPITER
Additives and care products	ZD 4145	PLANET-STONE powder SATURN
Additives and care products	ZD 4165	PLANET-STONE powder MOON
Additives and care products	ZD 4166	PLANET-STONE powder NEPTUNE
Additives and care products	ZD 4167	PLANET-STONE powder EARTH

General instructions on workmanship

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!

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.