



## DELTA<sup>®</sup> Bühnen- und Bodenlasur 9.01

### Type of product

Water-dilutable matt to satin semi-transparent sealing varnish based on an extremely fine acrylate-polyurethane copolymer dispersion for use in the interior on wood and wood-based materials.

### Intended use

DELTA<sup>®</sup> Bühnen- und Bodenlasur 9.01 is used in the interior as a priming, intermediate and finishing coat to seal wood (interior doors, furniture, chairs, wooden toys) and wood-based materials (chipboard, OSB panels etc.) in both living and working areas with little to average wear.

<b>Packaging:</b>	5 l / 20 l
<b>Colours:</b>	approx. RAL 7016 / approx. RAL 9005

### Technical data

<b>Density (20°C):</b>	approx. 1.04 g/ml
<b>Viscosity (20°C):</b>	approx. 50 sec. (4 mm flow cup DIN 53211) approx. 190 sec. (3 mm flow cup DIN ISO 2431)
<b>Degree of gloss:</b>	satin (approx. 30 GU / angle 60°)

In addition, the ready to use product in the colour RAL 9005 is available with the matt degree of gloss.

<b>Application temperature:</b>	> 8° C (applies to air, construction element and product itself)
<b>Dust Dry:</b>	after 2-4 hours (20° C / ventilated air circulation) depending on the absorption capacity of the surface
<b>Consumption:</b>	100 – 150 ml/m <sup>2</sup> per coat (depending on the surface and type of application)
<b>Abrasion Resistance:</b>	approx. 40 mg (Taber Abrasion Test, CS 17, 1000g/1000 rev)
<b>Storage:</b>	Store tightly closed original containers in a dry, cool and frost-free place

## Preparation of surfaces

Before applying the product surfaces must be clean and free from dust and grease as well as separating agents such as wax etc. Wood humidity should not exceed 15% and be no less than 8%.

Any priming coats should dry and be sanded according to the manufacturers specifications. It must be ensured that the priming coat is suitable to be overpainted with DELTA® Bühnen- und Boden Lasur. This also applies to previous coatings in case of renovation works. In case of doubt we recommend to carry out a test coating.

## Product characteristics

DELTA® Bühnen- und Bodenlasur 9.01 is a one-component one-pot system suitable as a priming, intermediate and finishing coat for all wood types in the interior.

It is a practically odourless, abrasion-resistant alternative to solvent containing systems especially for use on floors as well as stairs. Also suitable for varnishing furniture, chairs and children's toys thanks to its high scratch- resistance. DELTA® Bühnen- und Bodenlasur 9.01 complies with the standards of DIN EN 71, part 3, Safety for Children's Toys.

DELTA® Bühnen- und Bodenlasur 9.01 is compatible with many door seals but is not recommended for use together with sealing profiles containing plasticisers. If the type of sealing is not known then a compatibility test has to be carried out. Tropical wood can also be coated but because of the different characteristics of the various types of wood concerning substances contained and absorption capacity test applications should be carried out.

When coating wood containing tannins (i.e. oak) special care has to be taken when applying the colourless varnish, especially on horizontal surfaces, to avoid changes in the colour when too much varnish may accumulate.

## Application

DELTA® Bühnen- und Bodenlasur 9.01 can be applied by brush, roller, spraying or using a flat brush. The product, even when colourless, must be thoroughly stirred before use.

Before the first use the colour must be checked. When using different batches ensure that the colour is identical, mix batches together if necessary when using large amounts of the product.



When coating untreated, absorbing surfaces carry out a priming coat diluted with 5-10% tap water, then an undiluted intermediate coat and an undiluted finishing coat. If a priming coat has already been applied then it is not necessary to dilute the priming coat.

After the application of the priming coat and during renovation works sanding with 120-150 grit is recommended.

DELTA® Bühnen- und Bodenlasur 9.01 may, thanks to its viscosity, be used in high-pressure spraying (cup gun). Due to the large amount of product used when applying with airless or air assisted airless spray (Airmix, Airless plus) sags can form on vertical surfaces. Test the product on a small area first.

When applying with a roller ensure that a short to middle-length pile roller be used, not a foam roller, and that the material be spread lightly and evenly. The use of too much of the product or a partial accumulation of the product, for example on wood containing tannin, is to be avoided.

Dried material can be cleaned off tools by using universal or nitro thinners. When cleaning the tools special care has to be taken as some of the thinners have very strong dissolving capacities.

The liquid product can be diluted with tap water (drinking water quality) up to a maximum of 10%.

Under no circumstances can washing water or dishwater be added or used for dilution.

## Consumption

Consumption depends on the type of application, the absorption capacity of the surface to be varnished and the type of construction element to be coated.

Without taking into consideration loss caused by the type of application the consumption lies between 100 - 150 ml/m<sup>2</sup> (on vertical surfaces max. 100ml/m<sup>2</sup>) which amounts to between 6 – 10 m<sup>2</sup>/l per coat.

Excessive use of the product (applying more than 200ml/m<sup>2</sup> per coat) or a partial accumulation of the product may influence the drying process, the appearance, the sanding capacity as well as the capacity to be overpainted, especially if the drying conditions are unfavourable.

### Drying Process:

Surfaces are dust dry after 2-4 hours if the product is correctly applied under normal conditions

DELTA® Bühnen- und Bodenlasur 9.01 can be overpainted after approx. 4 - 6 hours.

If the drying period lasts longer than 24 hours the surface should be sanded (for example with sand paper with 240-280 grits) before applying the following coat.

Please note that adverse conditions such as high humidity, low ambient air temperatures and/or the temperature of the wooden construction element to be coated and low air circulation, may result in a significant delay in the drying process.

The drying periods are then to be extended accordingly.



## Chemical resistance

DELTA® Bühnen- und Bodenlasur 9.01 is tested according to DIN 68861, part 1 – Stress Group 1B. Behaviour under chemical stress is described in Table 2.

Table 2 – Chemical Resistance in accordance with DIN 68861

Agent n.	Agent	Description	Exposure time*	Evaluation
01	acetic acid	vinegar	60 min	0
02	citric acid	10% aqueous solution	60 min	0
04	ammonia water	10% aqueous solution	60 min	3
05	ethyl alcohol	40 % (rum)	60 min	0
07	beer	pale ale	60 min	0
08	cola beverages		16 h	0
09	coffee		16 h	1
13	water	demineralised water	16 h	0
14	petrol	white spirit KB 60	2 min	0
16	ethyl-butylacetate	1:1 mixture	10 sec	0
18	olive oil		16 h	0
20	salt	5% aqueous solution	5 h	0
23	disinfectant		10 min	0
27	detergent	30% aqueous solution	6 min	0

\* 0 = best value      5 = worst value

## Safety data

For the classification and labelling of the product please see the current safety data sheet; this can be downloaded at <http://www.cd-color.de/de/infocenter/downloads/datenblaetter-sd-tm.html>.

**Product code / GISCODE** (Gefahrstoff-Informations-System-Code - Dangerous Substances Information System Code) **in accordance with BG BAU** (Berufsgenossenschaft der Bauwirtschaft - Construction Industry Professional Association) – **GISBAU** (Gefahrstoff-Informations-System der BG BAU - Dangerous Substances Information System of the Construction Industry Professional Association):

See product label and the current safety data sheet (section 7.3).

You will find the operating instructions for use in accordance with § 14 of the German Hazardous Substances Regulation at <http://www.wingis-online.de/>

**Please observe the information given in the Safety Data Sheet**

## Special indications

Wooden surfaces are maintenance surfaces:

Coated wooden construction elements must be checked and maintained regularly in order that damage to the construction element or the coating is prevented.



Therefore we recommend that coated wooden construction elements are regularly checked and evaluated by an expert and that defects in the construction element or coating found are immediately eliminated in a professional manner.

DELTA® Bühnen- und Bodenlasur 9.01 is a one-pot system and needs no further treatment after the finishing coat has been applied.

Structures which have to meet special requirements concerning abrasion and/or loss of colour on the surface (seating, toys etc.) may require a second coating with the colourless product.

The surface can be treated with standard detergents and care products after a drying period of at least 28 day.

## General information

The above detailed information about the product has been prepared according to the latest technological developments and application techniques and is of pure advisory nature. Our products are described and information is provided as to their application and processing.

However, in view of the great variety of working conditions and materials used, we cannot cover every individual case in our descriptions.

Maintenance and renovation works carried out in time are necessary for the durability of the products.

Unless we explicitly promised specific properties and the suitability of the products for a particular application in writing, all technical application advice provided, even when given to the best of our knowledge, is definitely non-binding.

Legal liabilities do not result from the above information.

All our technical application recommendations regarding the products, which we provide to support the purchaser / processor on the basis of our experience and to the best of our knowledge in accordance with the latest state of the art, are non-binding.

The recommendations do not establish any legal relationship or any secondary obligation resulting from the purchase contract. In addition, they do not release the purchaser / processor from his responsibility to examine whether our products are suitable for their intended use.

To the rest, our general terms and conditions apply.

With the publication of this technical data sheet the information given in earlier issues are no longer valid.

**Please dial 0049 (0)2330 / 926 184 for information for allergic persons.**

For further technical and other information please contact our technical applications department under telephone number 0049 (0)2330 / 926 285.

In addition, you can find further information on our web page [www.cd-color.de](http://www.cd-color.de). All product related Technical Data Sheets and Safety Data Sheets can be found here.

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**Ein Unternehmen der Dörken-Gruppe**

