



## DELTA<sup>®</sup> Weißlack HG / Polarweiß brillant

### Type of Product

High-gloss white titanium varnish on a special alkyd resin basis.

### Intended Use

High-class white varnish for use in the interior and the exterior.

Suitable for high-gloss applications on wood, wood-based products, metals, non-ferrous metals and rigid synthetic materials after the appropriate pre-treatment and priming of the surfaces.

### Product Properties

- VOC compliant
- easy to apply, improved comfortable processing
- perfect flow also on vertical surfaces
- high percentage of solids
- high whiteness, high-gloss white finish
- the final brilliance is already achieved the day after the application
- high covering capacities also on edges
- extremely high weather resistance

**Packaging:** 0.75 l / 2.5 l

**Colour:** white

## Technical Data

<b>Degree of gloss:</b>	high gloss / > 80 GU (angle 20° / laboratory values)
<b>Consumption:</b>	approx. 100 ml/m <sup>2</sup> /per coat on a vertical and smooth surface
<b>Density:</b>	approx. 1.29 ± 0.03 g/ml
<b>Percentage of solids:</b>	approx. 77 %
<b>Viscosity:</b>	the product is ready for use
<b>Drying time with 20° C and 60% relative humidity:</b>	dust dry after approx. 2 - 3 h touch dry after approx. 10 h overpaintable after approx. 16 h completely dry after 16 – 20 h  Low temperatures and/or poor ventilation could affect drying negatively.
<b>Storage:</b>	Store tightly closed original containers in a dry, cool and frost-free place.

## Application Data

<b>Application methods:</b>	<b>brush / roller / spraying</b>
<b>Application temperature:</b>	minimum +8° C (air and surface temperature)
<b>Airless spraying:</b>	non diluted nozzle size approx. 0.008 inches pressure approx. 160 bar (depending on equipment and surface)
<b>Air-Coat spraying:</b>	non diluted nozzle size approx. 0.008 inches pressure approx. 50 - 60 bar air pressure 3 - 4 bar
<b>Cleaning of equipment:</b>	with the thinner DELTA® Universal-Verdünnung or white spirit

Do not apply the product in direct sunlight and under unsuitable weather conditions (for example with high air humidity, precipitation, fog, trapped moisture or strong winds).

Do not apply the product with low ambient temperature and on cold surfaces (below the dew point).

## Preparation of Surfaces

Surfaces must be clean, dry, stable and intact. Remove all substances which may prevent good adhesion like dirt, wax, oil and grease (see VOB (Vergabe und Vertragsordnung für Bauleistungen - German contracting regulations for construction works) part C, DIN 18363). Test adhesion capacity of surfaces.

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Remove loose particles or flakes, clean old coatings with caustic lye, then sand thoroughly. Sand varnished surfaces after every coat applied using the adequate abrasives (abrasive paper, for example 280 grit or less / abrasive pads, for example Mirca or 3M).

In case of unknown surfaces, PVC, coil coated and powder coated surfaces we recommend after consulting our technical service to test the product on a sample area. An adhesion test according to DIN EN ISO 2409 has to be carried out.

**The product is not suitable for applications on polyethylene, polypropylene and anodized aluminium.**

In case of doubt please consult our application technology department.

## Coating Cycle

### Dimensionally stable wood:

1. As a priming coat apply DELTA® Vorlack undiluted.
2. Use DELTA® Weißlack HG / Polarweiß brillant undiluted to apply the intermediate coat.
3. Apply DELTA® Weißlack HG / Polarweiß brillant undiluted as finishing coat.

Wooden surfaces require maintenance:

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.

Aggressive substances such as stronger acids, alkaline solutions, disinfectants, organic dyes (for example tea, coffee, red wine) could alter the colour of the varnish film, however, its functionality is not influenced.

The maximum wood moisture may not exceed 15 %.

### Iron / Steel:

1. Derust corroded iron and steel surfaces mechanically by at least using hand or power tools, in certain cases derust to industry standard (Sa 2 ½). In case of doubt consult our application technology department.
2. As a priming coat apply DELTA® Allprimer or DELTA® 2K Haftgrund undiluted.
3. Depending on the application use DELTA® Weißlack HG / Polarweiß brillant undiluted as an intermediate coat.
4. Apply DELTA® Weißlack HG / Polarweiß brillant undiluted as finishing coat.

### **Non-ferrous metals (aluminium, zinc etc.) / rigid PVC:**

1. Clean galvanized surfaces with an ammonia wetting agent using abrasive pads and subsequently wash with clean water (see BFS (Bundesausschuss Farbe und Sachwertschutz – Federal Committee of Colour and Property Protection) leaflet number 5).

Clean aluminium surfaces with nitro-thinner using a brush, then wipe surfaces with a clean cloth. Sand surfaces with an abrasive fleece (for example Scotch Brite). Remove sanding dust with a cloth soaked in solvent, until the cloth shows no residue of sanding dust (see BFS leaflet number 6).

2. As a priming coat apply DELTA® Allprimer undiluted.
3. Depending on the application use DELTA® Weißlack HG / Polarweiß brillant undiluted as an intermediate coat.
4. Apply DELTA® Weißlack HG / Polarweiß brillant undiluted as finishing coat.

### **Powder coated surfaces:**

1. Sand surfaces using the appropriate abrasive.
2. As a priming coat apply DELTA® 2K Haftgrund undiluted.
3. Depending on the application use DELTA® Weißlack HG / Polarweiß brillant undiluted as an intermediate coat.
4. Apply DELTA® Weißlack HG / Polarweiß brillant undiluted as finishing coat.

## **Safety Data**

For the classification and labelling of the product please see the current safety data sheet; this can be downloaded at <http://www.delta-lackcolor.de/delta-de/service/infomaterial/sdb.php>.

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

Surfaces must be dry, clean, stable and intact, without tension, deformation, cracks and salts. Remove substances which may prevent or reduce adhesion like oil and grease, wax, rust, salts and other corrosion products. See VOB (Vergabe und Vertragsordnung für Bauleistungen - German contracting regulations for construction works) part C, DIN 18363).

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Pay attention to dew moisture and surface temperature. Low temperatures and/or high humidity can have a negative effect both on drying and the coating.

Consult our field service in case of large-scale applications, applications on surfaces exposed to exceptional wear or extreme weathering.

Always test the surface for its ability to carry the proposed coating system. Remove old coatings which are damaged and do not provide good adhesion. Clean and sand stable and intact old coatings which offer good adhesion.

In case of unknown or surfaces not mentioned consult our technical service and apply a test coating.

Using universal colouring pastes, for example Mixol, please refer to the Technical Data Sheet of the respective producer of the material.

Preparing the surfaces and applying the product always observe the VOB, part C, DIN 18363, as well as the respective BFS leaflets of the Bundesausschuss Farbe und Sachwertschutz, Frankfurt am Main/ Germany.

When coating surfaces that form a unit optically ensure that all the material used is from the same batch. If this is not possible a sufficient amount of material from different batches should be mixed together in advance and stored for further processing.

Processing the product, we recommend to wear the appropriate protective equipment (see current Safety Data Sheet).

Do not apply the product on horizontal surfaces with persistent exposure to water.

Low temperatures and/or poor ventilation can have a negative effect on the drying.

Applying the product on metal or non-ferrous metal construction elements ensure that temperature does not fall under the dew point.

When exposed to physical agents (in rooms which are badly or poorly illuminated, thermal load etc.) or chemical agents (for example ammonia vapours) all alkyd resin varnishes are prone to yellowing or discoloration, especially the white and light colour shades.

Do not mix aromatics-free varnishes with varnishes containing aromatics.

Aggressive substances such as stronger acids, alkaline solutions, disinfectants, organic dyes (for example tea, coffee, red wine) could alter the colour of the varnish film, however, its functionality is not influenced.

**Under certain circumstances, the permissible VOC limit value may be exceeded when adding thinners to the product.**

Due to the material specific odour of solvent-based alkyd resin varnishes we recommend the water-based products of our varnish system DELTA® LACKCOLOR Premium Aqua for use on large surfaces in the interior (for example on walls and ceilings or the internal surfaces of furniture).

## 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 / 93 184 for information for allergic persons.**

For further technical and other information please contact the Contact Management of our technical applications department under telephone number 0049 (0)2330 / 63 243.

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

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