

GlasDesignLack GDL

Product description

Special GlasDesignLack GDL is a colourless two-pack polyurethane paint with extremely good lightfastness, which is very well adhering to many types of glass. Special GlasDesignLack GDL can be universally used for the decoration on glass. It is suitable for the creation of many effects and can also be used as adhesion promoter for coloured painting with WIGRANIT-NovaColor.

Range of application

Special GlasDesignLack GDL is excellently suitable for the coating of glass used for the high-quality decoration of, for example, shop fittings, restaurants, interior fittings of ships, hotels, drugstores, etc. Due to the broad spectrum of applications, a great many of glass effects can be created, e.g. sandblasting effect, milk glass effect, stained glass effect, metallic effects for table inlays, cabinet doors, backlit panes of glass, glass screens, display cases, bars, glass shelves for cabinets, etc.

Surfaces

All common types of natural glass, which have been thoroughly cleaned with Spezial Adhäsionsreiniger SAR. Plastic glass can also be cleaned with Spezial Adhäsionsreiniger SAR, but the adhesion of the coating composition on this plastic glass will not be influenced. (see Special notes)

Preparation

An important factor for the adhesion is that the glass surface has been thoroughly cleaned with Spezial Adhäsionsreiniger SAR and that impurities, such as fingerprints are avoided. Therefore we recommend to wear cotton gloves. Spezial Adhäsionsreiniger SAR is sprayed onto the glass surfaces to be painted and spread with a dry, lint-free cotton cloth until the glass is fully dry and clean. If necessary, the cleaning procedure can be repeated. After cleaning with Spezial Adhäsionsreiniger SAR, the application can be immediately continued (see 'Application'). In case the cleaned glass surface should not be painted with Special GlasDesignLack GDL within six hours, the cleaning procedure with Spezial Adhäsionsreiniger SAR must be repeated.

Gloss

Product number	GDL
Gloss level	silk
Measuring value accord. to DIN 67530 at 60°	approx. 60

Hardener

Hardener: PUR-Härter 5085

Mixing ratio: 5:1 (varnish/hardener)

Pot life: approx. 5 hours at 20°C

Thinner

Zweihorn PUR-Verdünner S 9004 (normal drying)

Zweihorn PUR-Verdünner S 9029 (slow drying)

Application

Prior to painting, make sure that all glass surfaces to be painted have been thoroughly treated with Spezial Adhäsionsreiniger SAR.

Shake or stir Special GlasDesignLack GDL well before use.

Special GlasDesignLack GDL must be hardened with PUR-Härter 5085 (see 'Hardener') and thinned with 30% PUR-Verdünner S 9004.

Opaque paint system:

For opaque coloured paint systems apply Special GlasDesignLack GDL as adhesion promoter onto the cleaned glass and, after a drying time of approximately 1 hour up to max. 8 hours (plastic panes up to max. 3 hours), overpaint it with WIGRANIT NovaColor WNC/Farbton (to be hardened and thinned in accordance with the Technical Data Sheet).

Transparent to glazed paint system:

Depending on the desired effect, the following Zweihorn products can be added to Special GlasDesignLack and applied directly onto the cleaned glass:

- up to 5% WIGRANIT NovaColor WNC/Farbton for glazed effects
- up to 5% Zweihorn Strukturpulver fein STP-F or grob STP-G for structured matt effects.
- up to 5% WIGRANIT NovaColor Metallbasislack WNC/MB for metallic effect

The metallic effect is also very well suitable as a basic coat for a subsequently applied coloured paint system with WIGRANIT NovaColor WNC/Farbton.

Effect paint system such as:

- Drop effect
- Crackle effect
- Staple fiber effect
- Speckle effect
- Nap effect and others

Application methods

	Spraying	
	High / Low pressure	Airless / Airmix
Spray pressure (bar)	1.5 - 3	110 - 130
Nozzle size (mm)	1.6 - 1.9	0.23
Dilution (%)	30	30
Processing viscosity DIN-4 mm	15	15
Coverage per application (g/m ²)	60 - 80	60 - 80
Yield (m ² /l)	12 - 16	12 - 16

Drying time (at room temperature 20°C and 65% humidity)

dust-dry approx. 30 min.	touch-dry approx. 2 hours	transportable overnight	fully loadable after 3 days
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Aftertreatment

After a drying time of approx. one hour to 8 hours max. on glass and up to 3 hours max. on plastic panes, Special GlasDesignLack GDL can be overpainted with WIGRANIT NovaColor 2K-PUR Buntlack WNC/Farbton without intermediate sanding .

Product data

Batch size	2.5l
Viscosity at delivery	approx. 27 seconds
Shelf life in unopened original batches	approx. 2 years

Further information can be obtained from the label and the Safety Data Sheet 91/155/EWG, which you can download from the Internet under www.zweihorn.com or which you can request from us.

Special notes

- Excellent cleaning of the glass surfaces with Spezial Adhäsionsreiniger SAR is an absolute must and is decisive for the subsequent adhesion of the paint film.
- Intractable contaminations on the glass surface can also be cleaned with thinner (e.g. S 9004 or 10063) or acetone. An important factor for the subsequent adhesion is that in the last step of the procedure, before Special GlasDesignLack GDL is applied, Spezial Adhäsionsreiniger SAR is used for cleaning.
- Spezial Adhäsionsreiniger SAR must be spread with a dry, clean cloth.
- Painting with Special GlasDesignLack GDL must be done immediately after the cleaning with Spezial Adhäsionsreiniger SAR within a period of 6 hours max. If not, the cleaning procedure must be repeated.
- Always avoid fingerprints - wear cotton gloves.
- Final hardness and adhesion is obtained after approximately 3 days.
- Spezial Adhäsionsreiniger SAR considerably improves the adhesion on many types of natural glass (silicate glass). Plastic glass (acrylic glass) can also be cleaned with Spezial Adhäsionsreiniger SAR, but the adhesion of the subsequent coating composition will not be influenced. For that reason, the adhesion of plastic glass must be tested.
- Due to different types of glass and special types of glass, we generally recommend to make a test on the original glass. The adhesion check of this test should be made after 3 days only.
- GlasDesignLack was exclusively developed for decorative applications.
- Painted glass surfaces must not be dipped in or moistened with water for a longer period of time. However, short exposure to moisture is permissible.
- Do not process and dry PUR varnishes below 15 °C.
- PUR Hardeners are sensitive towards humidity. Always store in tightly closed containers.
- When using PUR Hardeners, follow the safety instructions on the label.
- PUR Hardeners should be stored dry and cool in closed original containers for a maximum of one year approx.

Zweihorn products are produced for the professional user, who has a basic knowledge of the use and the application of stains, varnishes, glazes and glues. The user information for our qualities given in the leaflets should be regarded as non-binding recommendations. They are based on our test series and experiences and should facilitate and promote the work of our clients. Any adjustment to the individual working conditions, which might be possible, lies within your responsibility. If in any doubt, our material experts as well as our application and laboratory technicians will try to help you as best as they can. We guarantee of course the impeccable quality of our products based on our General Sales and Delivery Conditions. The use of the final product lies entirely within the responsibility of the buyer. As long as we have not guaranteed in writing specific characteristics and suitability of the products for a contractually agreed purpose, any advice or information given regarding the application, even if the advice or information is given to the best of our knowledge, will be non-binding. Nor does it relieve the buyer, either from his own inspection, and if need be through a trial processing. Furthermore, we are only liable according to our General Conditions for advice either given or rejected, which does not refer to the characteristics and use of the delivered product.

Applicable is the current Technical Data Sheet, which can be downloaded under www.zweihorn.com. Previous technical data sheets are voided with the issue of a new version.

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