

## Variocryl® Color Effektlack VCC / MB, PGB, GOLD

### Product description

Variocryl® Color Effektlack VCC/MB, PGB, GOLD are high-quality, lightfast two-pack PUR effect varnishes with high sparkle finish. Variocryl® Effektlack can be processed individually or tinted with Variocryl® Color. Thanks to this, many coloured effect finishes can be realized.

### Range of application

Variocryl® Color Effektlack VCC/MB, PGB, GOLD are only suitable for modern effect finishes on surfaces of interior furniture. For various applications on highly stressed effect surfaces.

### Surfaces

All common woods and wood materials.

Hardboard and MDF boards in wet cells, as well as some woods rich in resin or other ingredients, such as pine, should first be primed with Duofill 2K Isolierfüller. Please see the separate Technical Data Sheet.

### Preparation

Carefully sand and dust the surfaces treated with Duofill 2K Isolierfüller. Boards with a primer foil or with a smooth foil coating must be carefully sanded before being painted with Variocryl™ Color Effektlack VCC/MB, PGB or GOLD.

### Hardening

Hardener:	PUR Wasserlackhärter PWH 3200
Mixing ratio (varnish/hardener)	20 : 1
Pot life	approx. 4 hours at 20°C, 65% rel. humidity

Caution: The hardener must be intensively and immediately mixed with the product.

When the hardener is added, the viscosity is increased. After the hardener has been added and thoroughly mixed, Variocryl® Optimizer or tap water must be added to adjust the product to painting viscosity.

To achieve the optimum varnishing result do not exceed the pot life.

### Thinner

Variocryl® Optimizer VO or tap water

### Application

#### Stir well before use!

When changing the spraying equipment from solvent-based products to water-based paints, the spraying equipment must be first flushed with Zweihorn® Universalreiniger UR and water. Processing conditions: 15-25°C temperature and 30-65% relative humidity.

#### Metallic painting:

As a primer, Duofill DF must be applied in accordance with the Technical Data Sheet.. Sanding through of the primer coat must be avoided. If sanding through took place, please repeat the coating with the filler in order to avoid colour variations.

Variocryl® Color Effektlack VCC/MB, PGB, GOLD can be processed neatly or tinted with Variocryl® Color. At least half of the mixture should be Variocryl® Color Effektlack VCC/MB, PGB, GOLD, in order to ensure sufficient effect finish. The metallic effect is badly influenced by the addition of white pigment. For that reason, the amount of white or pastel shades should be as low as possible. Always make a paint test and check the colour/effect. Variocryl® Color Effektlack VCC/MB, PGB, GOLD as well as mixtures with Variocryl® Color must be processed as hardened two-pack material (see 'Hardener'). For thinning we recommend using Variocryl® Optimizer instead of tap water. By doing so, the surface elegance, especially in the area of edges and profiles, is improved. Also the drying time of Variocryl® Color Effektlack VCC/MB, PGB, GOLD is shortened. Apply the mixture crosswise and not too wet.

Additional surface protection and smoothness as well as improved mechanical and chemical resistance properties are obtained by an additional colourless coat. For that purpose, clear varnishes of the Variocryl® or Duocryl Top series with different degrees of gloss are best suitable (VC 8, 9, 0 or DC-T 8, 9, 0). Please see the separate Technical Data Sheets.

### Glitter effect:

As a primer, Duofill DF must be applied in accordance with the Technical Data Sheet. Apply Variocryl® Color VCC/Colour. See the separate Technical Data Sheet for Variocryl® Color VCC/Colour. High-quality final coats with glitter effect can be realized by adding 0.5 to 5% of Variocryl® Color Effektlack VCC/MB, PGB, GOLD into lightfast, water-based varnishes like Variocryl® VC or Duocryl Top DC-T.

### Application methods

	Spraying	
	High/Low pressure	Airless / Airmix
Spray pressure (bar)	1.5 - 3	110 - 130
Nozzle size (mm)	1.6 - 1.8	0.23 - 0.28
Thinner to be added (%)	5 - 10	0 - 10
Processing viscosity DIN 4 mm (sec.)	approx. 30	approx. 50
Coverage per application (g/m <sup>2</sup> )	100 - 120	100 - 120
Yield incl. overspray (m <sup>2</sup> /l)	6 - 7	6 - 7

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

dust dry	touch dry	sandable/paintable	ready for transport
approx. 40 min.	approx. 1 hour	approx. 4 hours	overnight

The drying time strongly depends on the quantity applied, the temperature, air humidity and air movement. High application quantity and air humidity has a negative effect on the drying process. Higher temperature and air blast has a positive effect. If all parameters such as layer thickness, drying temperature, air humidity, etc. are met, the coated surfaces can be stacked after drying overnight (14 hours min.). In order to avoid blocking during stacking, we recommend using PE foam foil as intermediate layer.

### Post-treatment

After the indicated drying time, Variocryl® Color Effektlack VCC/MB, PGB, GOLD can be overpainted with Zweihorn® water-based varnishes such as Duocryl 2K-PUR Top-Wasserklarlack DC-T or Variocryl® Wasserklarlack VC. We recommend overpainting within 4 to 24 hours without intermediate sanding. Overpainting too early may cause surface failures. If overvarnishing can only be done later, the special effect paint surfaces must be slightly sanded (400 grit paper) before the paint is applied. After sanding and dust removal, the surface can be overvarnished with the same material at any time.

### Product data

Batch size	
Variocryl® Color Metallicbasislack VCC/MB	3 kg
Variocryl® Color Perlglanz VCC/PGB	3 kg
Variocryl® Color Gold VCC/GOLD	3 kg
Batch sizes PUR-Wasserlackhärter PWH 3200	0.5 l, 2.5 l
Viscosity at delivery DIN 4 mm VCC/MB, PGB, GOLD	60 - 100 seconds
Shelf life in unopened original batches	approx. 1 year

Further information can be obtained from the label and the Safety Data Sheet according to 91/155/EWG, which can be downloaded from our Internet site "www.zweihorn.com" or requested from us.

### VOC directive

EC limit value for this product (Cat. A/e): 150 g/l (2007) / 130 g/l (2010)

This product contains max. 103 g/l VOC.

### Special notes

- Only use working equipment made from non-rusting material.
- After use, immediately clean the working equipment with water.
- When changing from water-based varnish to solvent containing systems thoroughly rinse the spraying equipment with water and then with Universalreiniger UR.
- Variocryl® Color Effektlack VCC/MB, PGB, GOLD must be processed in hardened condition.
- In order to improve the surface properties (smoothness and loading), Variocryl® Color Effektlack VCC/MB, PGB, GOLD should be overvarnished with a water-based, two-pack Zweihorn® varnish such as Duocryl 2K-PUR Top-Wasserklarlack DC-T or Variocryl® Wasserklarlack VC.
- When directly varnishing coated boards such as primer foils, melamine resin coats or HPL with Variocryl® Color Effektlack VCC/MB, PGB, GOLD, careful sanding of the foils is required before.
- PUR hardeners are affected by moisture. Always store the hardener in tightly closed batches.
- When using PUR hardeners always follow the safety instructions on the label.
- PUR hardener may be stored in unopened original batches and at a cool and dry place for a maximum of 1 year approx
- Do not process under 15°C.
- Material is frost sensitive - do not store and transport under 5°C.
- All processing parameters apply to normal conditions (20°C, 65% relative humidity of air). Deviations may cause deterioration of the results.
- Always keep the containers closed; protect the contents against drying-out.
- In case of skinning, remove the skin through filtration prior to the application (e.g. through a nylon mesh).
- Caution: The product must not be drained into the sewage system.

### Test standards

#### Meets the following test standards:

- DIN 53160, Part 1 and Part 2, Saliva and sweat proof (CE approval)
- EN 71-3 Free from soluble heavy metals (CE approval)

Please follow the relevant test certificates for our products, which can be downloaded from our Internet site "[www.zweihorn.com](http://www.zweihorn.com)" or requested from us.

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](http://www.zweihorn.com). Previous technical data sheets are voided with the issue of a new version.

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