

## Duocryl 2K-PUR Wasser Isoliergrund DC-I



**VOC-Compliant**

### Product description

Duocryl 2K-PUR Wasser Isoliergrund DC-I is a special primer of the latest generation of waterborne varnishes with insulating and grain emphasizing effect. It is excellently suitable for the insulation of wood rich in ingredients and resin, such as teak, wenge, pine and various exotic wood types as well as for grain emphasis with all types of wood. It is also suitable as perfect primer for MDF construction, where it efficiently protects against penetrating humidity.

### Range of application

Duocryl 2K-PUR Wasser Isoliergrund DC-I is suitable for VOC-conforming priming of interior wood and wood-based material, also for wet-room applications in bathrooms and kitchens.

### Surfaces

All common wood types including wood rich in resin or other ingredients such as pine, teak or wenge types, as well as hardboard and MDF for wet-room applications. All Zweihorn® stains, with the exception of wax stain, can be used.

### Preparation

For raw wood surfaces a graduated sanding must be carried out (120/150/ possibly 180 grit paper). Dust well. The finer the wood sanding, the slighter the roughening. In the case of strongly roughening wood previous watering is recommended. Do not sand stained surfaces.

Hardening	
Hardener	PUR-Wasserlackhärter PWH 3200
Mixing ratio (lacquer/hardener)	5:1
Pot life	approx. 4 h at 20 °C, 65 % relative humidity of air

### 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, tap water must be added to adjust the product to spraying viscosity. To achieve the optimum varnishing result do not exceed the pot life.

### Thinner

Only after being mixed thoroughly with the hardener! 10-20 % of tap water.

### Application

#### Shake or stir well before use!

When changing the spraying equipment from solvent-based products to water-based varnishes, the spraying equipment must be first flushed with Zweihorn® Universalreiniger UR and water. Duocryl 2K-PUR Wasser Isoliergrund DC-I may only be applied after it has been mixed with the hardener.

After drying of the primer coat carry out intermediate sanding with a sanding paper suitable for water-based paint (e.g. 280 grit paper) and dust well. If the primer coat has been removed during sanding, another coat of Duocryl 2K-PUR Wasser Isoliergrund DC-I must be applied. Processing conditions: 15-25 °C temperature and 30-65 % relative humidity of air.

Application methods	Spraying		Brush/Roller
	High/Low press.	Airless/Airmix	
Spray pressure (bar)	1.5-3.0	110-130	–
Nozzle size (mm)	1.8-2.0	0.25-0.33	–
Water added (%)	20	10-20	20
Processing viscosity DIN 4 mm (sec.)	approx. 40	approx. 40-50	approx. 40
Coverage per application (g/m <sup>2</sup> )	100-140	100-140	80-120
Yield incl. over-spray (m <sup>2</sup> /l)	5-7	5-7	8-12

Drying time (at 20°C room temperature, 65 % relative humidity of air)	
dust-dry	approx. 30 min.
touch-dry	approx. 1 h
sandable	approx. 4-5 h

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.

### Aftertreatment

After previous sanding and dusting, surfaces primed with Duocryl 2K-PUR Wasser Isoliergrund DC-I can be overpainted with Supercryl Füller (DF, SUF), Variocryl® Color (VCC/colour) or water-based varnishes (VC, DC-T).

Product data	
Batch size DC-I	5 l
Batch sizes Härter PWH 3200	0.5 l, 2.5 l
Viscos. at deliv. DIN 4 mm	approx. 40 sec.
Shelf life in unopened original batches	approx. 1 year

### VOC directive

EC limit value for this product (cat. A/e): 150 g/l (2007) / 130 g/l (2010). This product contains max. 74 g/l VOC.

For further information see the label and the Safety Data Sheet according to 91/155/EWG, which you can find on our website [www.zweihorn.com](http://www.zweihorn.com) or which you can request from us.

### 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.
- ▶ Prior to varnishing and after thorough sanding, wood particularly rich in grease or ingredients should be washed out with Universalreiniger UR.
- ▶ PUR hardeners are sensitive to moisture. Always store in tightly sealed containers.
- ▶ Pay attention to the Safety Instruction appearing on the label whenever you handle PUR hardeners.
- ▶ PUR hardeners should be stored under cool and dry conditions for not longer than approx. one year in the closed original batch.
- ▶ Duocryl 2K-PUR Wasser Isoliergrund DC-I can also be used on bleached wood (peroxide-resistant).
- ▶ Some water stains might "bleed out" during coating with water-based varnishes. For that reason, always make a staining and varnishing test.
- ▶ 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 dehydration.
- ▶ 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.

### Meets the following test standards:

- EN 71-3 Free from soluble heavy metals (CE approval)
- DIN 53160 Part 1 and Part 2 Saliva and sweat proof (CE approval)
- Requirements to the surfaces of kitchen furniture according to DIN 68930 regarding the resistance under changing climatic conditions

Please follow the relevant test certificates for our products, which can be downloaded from our website "[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 Chapter 1 of 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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