

## Duofill 2K Isolierfüller DF

### Product description

Duofill 2K Isolierfüller DF is a water-thinnable, white pigmented two-pack filler with insulating effect against humidity and wood ingredients. Duofill 2K Isolierfüller DF is quickly drying and very well sandable. The product is excellently suitable for water-based surface construction.

### Range of application

Duofill 2K Isolierfüller DF is a filler for varied applications. It allows coating of MDF without the need to apply a colourless, deeply penetrating barrier coat before, so that one work cycle is saved.

### Surfaces

MDF and other derived timber products, also for wet-room applications.

Wood rich in resin or other ingredients (e.g. some pine, teak or Wenge types) should be insulated twice with Duofill 2K Isolierfüller DF and appropriate intermediate sanding. Can also be used as adhesion promoter for many common metals and plastics.

### Preparation

In case of raw wood surfaces, carry out wood sanding in several steps (120/150/ perhaps 180 grit paper) and dust well. The finer the wood sanding, the slighter the roughening. Do not grind through! However, if grinding-through took place, we recommend applying Duofill 2K Isolierfüller DF again. When the product is used as adhesion promoter on plastics or metals, the surfaces must be cleaned (degreased) and slightly sanded before.

### Hardening

Hardener:	PUR Wasserlackhärter PWH 3200	
Mixing ratio (varnish/hardener)		
By weight	10:1	(10% PWH 3200)
By volume	100:15	(15% PWH 3200)
Best processing time	approx. 3 hours at 20°C, 65% rel. humidity	
Pot life	approx. 6 hours at 20°C, 65% rel. humidity	

Caution: The hardener must be intensively and immediately mixed with the product. When hardener is added, viscosity is increased. Thinning with water, if required, is made after the hardener has been added and thoroughly mixed. For best results, varnishing must be made within the best processing time.

### Thinner

Can be thinned with up to 10% of tap water, if required. (After being mixed thoroughly with the hardener.)

### Application

**Stir well before use! Apply only after hardener has been added!**

Application is made by means of spraying, see 'Application methods'.

After drying and intermediate sanding with 280/320-grit paper, further processing can be made with Supercryl Unocolor SCU/colour or Supercryl Duocolor SCD/colour. If the layer is ground through during intermediate sanding, e.g. when sanding strongly roughening surfaces such as MDF, we recommend applying another coat of Duofill 2K Isolierfüller DF. When the product is used as adhesion promoter it must be sprayed on once as a thin layer. Ideal processing conditions: approx. 15-25 °C (environment, varnish/paint material and workpiece) and approx. 30 - 65% relative humidity of air.

### Application methods

	Spraying	
	High/Low pressure	Airless / Airmix
Spray pressure (bar)	1,5 - 3	110 - 130
Nozzle size (mm)	2,0 - 2,5	0,33 - 0,38
Thinner to be added (%)	5 - 10	-
Processing viscosity	approx. 100	approx. 120
Coverage per application (g/m <sup>2</sup> )	120 - 200	120 - 200
Yield (m <sup>2</sup> /l)	4 - 7	4 - 7

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

dust dry	touch dry	sandable
approx. 30 min.	approx. 2 hours	approx. 6 hours

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.

### Post-treatment

Duofill 2K Isolierfüller DF can be sanded after a drying time of at least 6 hours and Supercryl Buntlack SCU/colour or SCD/colour can be applied.

### Product data

Batch sizes	3 kg, 10 kg, 30 kg
Viscosity at delivery DIN 4 mm	approx. 120 seconds
Shelf life in unopened original batches	approx. 1 years
VOC directive	
EC limit value for this product (Cat. A/d):	150 g/l (2007) / 130 g/l (2010)
This product contains max.	82 g/l VOC.

Further information can be obtained from the label and the Safety Data Sheet accord. to 91/155/EWG, which can be downloaded from our Internet site "[www.zweihorn.com](http://www.zweihorn.com)" or requested from us.

### Special notes

- Only use working equipment made from non-rusting material.
- Material is frost sensitive - do not store and transport under 5°C.
- After use, immediately clean the working equipment with water and then with Universalreiniger UR.
- Do not process and dry the materials below 15°C.
- Duofill 2K Isolierfüller DF adheres on many common metals and plastics. Due to the great number of products being on the market, adhesion cannot be guaranteed generally. For that reason, adhesion on special surfaces must always be checked.
- When changing from water-based varnish to solvent containing varnishes thoroughly rinse the spray guns with water and then with Universalreiniger UR.
- Always keep the containers closed. Protect contents against dehydration (skinning). 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)
- Requirements to the surfaces of kitchen furniture according to DIN 68930 regarding the resistance under changing climatic conditions

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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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