



Düfa 2in1 Glanzlack

Water-based acrylic varnish

For indoor and outdoor use



This technical information is based on the latest state of the art technology and our experience of application. In view of the wide variety of substrates and object conditions, the purchaser / user is not released from his obligation to examine our materials of his own accord for suitability to the intended use under the respective site conditions in regard to technical and artisan requirements (for example via trial coating on a sample surface etc.). For those applications which are not clearly defined in this Technical Data Sheet, we cannot accept any responsibility. Please contact our application technicians before you start. This is particularly important in the case of this product should be combined with other products. Legal liability cannot be inferred from the information given. A new issue supersedes all previous versions.

For more information please call toll-free: 00800/ 63333782

(only tollfree for the following landline telephones: Germany, Austria, Switzerland, The Netherlands).

Product description

Application area

PU-reinforced acrylic varnish for decorative and protective paintwork for interior and exterior use. Ideally suitable for coatings on primed wood and metal, paintable plastics (for example: rigid PVC) as well as for renovation coats on all stable old paint coatings. The dried final coat is suitable for children's toys according to DIN EN 71.3.

Properties/ Characteristics

- Water-based
- PU-reinforced
- Easy application
- Quick drying
- Highly durable, shock and impact-resistant
- Highly weather-resistant, non-yellowing
- Block-resistant
- Sprayable with suitable spray equipment

Gloss level

Glossy

Colour shade

RAL 1004 GOLDEN YELLOW	RAL 1015 LIGHT IVORY
RAL 3000 FLAME RED	RAL 5010 GENTIAN BLUE
RAL 6005 MOSS GREEN	RAL 7001 SILVER GREY
RAL 7035 LIGHT GREY	RAL 8011 NUT BROWN
RAL 8017 CHOCOLATE BROWN	RAL 9001 CREAM WHITE
RAL 9005 JET BLACK	REINWEISS
BORDEAUX RED	FRISIAN BLUE
TERRACOTTA	

All colours are mixable with each other.

Unit sizes

125 ml, 375 ml, 750 ml, 2,5 l



Technical data sheet

Consumption	Approx. 100 ml/m ² per coat. The consumption can vary depending on the individual absorbency and the application technique. Determine the precise quantities by sample coating.
Application temperature	Min. +8°C for substrate and surrounding area, during application and drying.

Application

Substrate	Pretreatment	Prime coat
In general	The substrate must be free from contamination and substances with separating properties, clean, dry and load-bearing according to the latest state of art technology. The current BFS data sheets as well as VOB, DIN 18363, part C "Painting and varnishing works" are to be observed.	
Old paint coatings	Remove completely loose, flaky and cracked old coatings. Residues of grease, oil and silicone are to be removed. Sand well-adhering existing coatings lightly. Before repainting, test the surface for compatibility. If necessary, carry out a tape test and a paint test.	Düfa Premium Multigrund
Wood	The structural wood protection within the outdoor area is to be taken into account. Sharp wood edges should be rounded. Rain water must drain quickly and well, in any case standing moisture must be avoided. The residual wood moisture in dimensionally accurate parts is limited to 15%, in non-dimensionally accurate parts it should not exceed 18%. Clean oil-rich and resinous woods thoroughly with nitro-universal thinner and allow the surfaces to dry well, remove resin galls. Remove loose pieces of wood. Sand the wood before painting. Pressure-treated wood should only be coated after approximately 6 months weathering. Pre-treat woods <u>in the outdoor area</u> which are threatened by blue stain fungi with an appropriate protective wood primer .	Düfa Premium Holzisoliergrund
Iron / Steel	Rust, mill scale, scale and welding residues should be mechanically removed until a shiny metallic surface is visible. Furthermore, sharp edges and burrs should be rounded.	Düfa Allgrund



Zinc	Zinc surfaces should be thoroughly wet sanded with an abrasive pad and an ammonia-water solution containing a wetting agent. For this, make a mixture of water, ammonia and a bit washing up liquid. The mixing ratio in accordance with the instruction of the ammonia. Then, rinse the surfaces with plenty of water. Furthermore, sharp edges and burrs should be rounded. As an alternative, a zinc cleaner can be used.	Düfa Premium Multigrund
Aluminium, bright metallic surface	Clean the surface with nitro-universal thinner, sand the surfaces with a nylon fleece, and clean the surface again with nitro-universal thinner and a cotton cloth until no more residue is left.	Düfa Allgrund
Paintable plastics	Clean with an ammonia-water solution and an abrasive pad. For this, make a mixture of water, ammonia and a bit washing up liquid. The mixing ratio in accordance with the instruction of the ammonia. Then, rinse the surfaces with plenty of water. Furthermore, sharp edges and burrs should be rounded. As an alternative, a zinc cleaner can be used.	Düfa Premium Multigrund

Dilution

The product is ready-to-use. For spray application adjust the spray viscosity with clean tap water, dilute with a maximum of 10% water.

Application technique

Stir well before use. To achieve a sufficient protection film, 2 coats are necessary. The drying time between the coats has to be observed.

By brush

For the application via brush, use special lacquer brushes with plastic or mixed bristles.

By roller

For the application via roller, use a roughened foam roller. Alternatively, applicator with a short-piled professional lacquer roller and rework then immediately with a fine-pored foam roller.

By spray device

Carry out the spray application with appropriate spray devices. Follow manufacturer's instructions

Spray method	Airless	Air-Mix	Low pressure spray HVLP	High pressure spray
Spray pressure	80- 120 bar	35-50 bar supply air 0,5-2,0 bar	Follow manufacturer's instructions	2-3 bar
Size of nozzle	0,008-0,012 inch	0,008–0,012 Inch	Herstellerhinweis beachten	1,8 – 2,5 mm
Dilution	max. 5%	max. 5%	max. 10%	max. 5%



Drying time	At + 20°C and max. 60% rel. air humidity Dry on surface: after approx. 1 hour Recoatable: after approx. 12 hours At lower temperatures and higher air humidity, the drying time can take longer.
Processing information	<ul style="list-style-type: none">▪ Due to the variety of possible substrates as well as other influencing factors, we recommend to carry out a sample coating before application.▪ In the case of visually coherent wooden components, use only products from the same batch.▪ The technical data sheets of all products mentioned herein are to be observed.▪ In order to prevent pigment abrasion of coloured coatings of subjects which are exposed to higher mechanical stress (e.g.: seat, shelves), an additional transparent coat with a clear varnish should be applied.
General information	<ul style="list-style-type: none">▪ In order to achieve a long durability of the coating, one should check at least once a year the paint coat and find out if there are some damages. All damages are to be renovated professionally.
Cleaning of tools	Immediately after use, the tools should be cleaned with water, if necessary with the addition of washing-up liquid.

Product information

Binder	Acrylate dispersion
Contents	According to VDL building and paint guideline: Acrylate dispersion, polyurethane dispersion, pigments, water, additives. Contains 1,2-BENZISOTHIAZOL-3(2H)-ON. May cause allergic reactions. Advice for users allergic to isothiazolinone: 00800/ 63 33 37 82.
Density	Approx. 1,0 – 1,2 g/cm ³ , depending on the colour shade.
VOC safety advice	EU-limit value for this product (Cat. A/d): 130 g/l (2010). This product contains < 1 g/l VOC.



Safety advice

Keep out of reach of children. Use a combi-filter during spraying work and a dust filter during sanding work. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. IF ON SKIN / IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. Avoid release to the environment. Do not empty into drains, aquatic environment or soil. When necessary, the designation can be found in the safety data sheet. Safety data sheet available on request.

Storage

Always store closed in a cool, dry and frost-free place.

Disposal

Only put containers free from residue in for recycling. Dried material residues can be disposed with the normal household waste. Liquid material residues can be handed over at a collection point for waste paints. Disposal key (AVV): 080112.

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Farbwerke

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Technical information dated, 08/2016