

Technical data sheet

DiescoLack Aqua PU Undercoat / mix

Base coat and undercoat for
interior and exterior use



Water-soluble, PU-reinforced base coat and undercoat for interiors and exteriors

- Can be watered down
- Low-odour
- Very good distribution
- Sands very well
- Good filling performance
- With rust-inhibiting active substances
- Excellent adhesion to the substrate
- Diffusible
- Short waiting time between coats
- Aqua PU Undercoat: high degree of whiteness
- Aqua PU Undercoat mix: universal colour toning

Application

DiescoLack Aqua PU Undercoat is a low-odour, water-soluble, filling, white undercoat with good coverage that can be lightly sanded. It is for use with the following DiescoLack Aqua PU Gloss Paint and DiescoLack Aqua Silky Gloss Paint coatings. Substrates that are suitable are: wood, wood-based materials, mineral substrates, glass-fibre wallpapers, existing load bearing coats of paint, etc. for interiors and outdoors.

Binding agents	Polyurethane-Acrylic polymers
Odour	Very faint
Density	Circa 1.45 g/ml, depending on colour tone
Gloss level	Matt
Colour tone	White

The DiescoLack Aqua PU Coloured Paint can be universally tinted using Diessner MIX. Note: The supplied colours are to be checked for colour accuracy before painting. Please refer to BFS data sheet no. 25.

Container size	DiescoLack Aqua PU Undercoat 0.75 and 2.5 litre containers. DiescoLack Aqua PU Undercoat mix 1.0 and 2.5 litre containers.
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Storage	Store in a cool, frost-free environment. Seal opened containers well and consume in short order. Unopened containers can be kept for a minimum of 12 months.
Application	On smooth surfaces approx. 100-160 ml/m ² (6-10 m ² /litre) per step given normal material application. More should be used on poorly absorbent, rough or structured surfaces. Determine material consumption with a test coat.
Product – Code	M-GP 01
VOC Content	Class d type wb, VOC limit value from 2010 = 130 g/litre Maximum VOC value 130 g/litre
Hazard identification	Not applicable
Safety instructions:	P501 Dispose of contents/container in accordance with local/ regional/ national/ international regulations.
Water pollution class	1 (according to VwVwS), low water hazard
Declaration of ingredients	Acrylate dispersion, polyurethane dispersion, titanium dioxide, water, glycols, additives. Advice for people allergic to isothiazolinone is available on telephone number +49 (0)30 60 00 02 49.
Special instructions	Should be kept out of reach of children. In case of contact with the eyes, rinse thoroughly with water and consult a doctor if necessary. Ensure that there is good ventilation while painting. When using in a spraying process, do not breathe in the spray mist and use suitable breathing apparatus in case of insufficient ventilation. Before use, always read label and product information. Do not allow the paint to enter drainage systems, waterways or soil. Cover all areas to be painted carefully. Wash off paint splashes on all kinds of surfaces with water while the paint is still wet.
Disposal	May not be disposed of together with domestic waste. Do not dispose in the sink. Do not allow the paint to enter drainage systems. Place remaining material in special waste containers or bring to special waste collection points.
Product disposal	Waste code: 080120 aqueous suspensions that contain paints or varnishes with organic solvents or other dangerous substances. Material residues may not be disposed together with domestic waste.

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Disposal of packaging	Waste code 150104 = waste disposal according to official regulations. Containers with residue must be brought to a special waste collection point. Uncontaminated and fully emptied packaging can be used for recycling. Interseroh-Recycling: Manufacturer number: 26967
Handling guidelines	
Preparation:	Stir the material carefully before use.
Substrate preparation:	See the section on suitable substrates and their preparation and the sequence of coats.
Order procedure:	Apply material by brushing and rolling. Spray application is possible with suitable spraying devices (airless, aircoat / air mix, fine coat, high pressure).
Hand application:	Spread DiescoLack Aqua Undercoat evenly, wet on wet and smooth out evenly with a brush or paint roller.
Spray application:	<p>Airless spray application*: Nozzle: 0.25-0.33 mm, spray pressure 160-180 bar</p> <p>Air coat / air mix spray application*: Nozzle: 0.28 mm, spray pressure 80-140 bar, air pressure: 1-2 bar</p> <p>Fine coat spray application*: Nozzle 2.0 mm, if required material setting to 40–50 seconds in a 4 mm DIN cup**</p> <p>High pressure spray application*: Nozzle: 1.7-2.0 mm, air pressure: 3-4 bar, if required material setting to 40-50 sec. in 4 mm DIN outlet cup</p> <p>*The indicated values are guidance values.</p>
Protective equipment	Respiratory protection mask with filter type A2/A3
**Thinning agent	Clean tap water
Sanding:	After drying we recommend cutting back with 240 grit sandpaper. Note: Fully remove the dust from sanding.
Application temperature lower limit	+8°C substrate and ambient temperature

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Drying time Fully dry after circa 30 minutes at +23 °C and 50% relative humidity; a further coat can be applied after around 8 hours. Considerably longer drying time at lower temperatures and/or higher humidity.

Tools Brushes, rollers and spraying devices suitable for aqueous paints. Clean tools immediately after use with water and some detergent.

Please note:

Do not use in direct sunlight, in strong winds, if there is a risk of rain, mist or dew, a risk of higher humidity (>70%) or a risk of night frost (during the entire processing and drying phase). Do not use if the ambient, object or drying temperature is below +8°C. Protect from any humidity during the drying period. Failure to comply with this may result in damage to the coat in the form of peeling, blistering or premature chalking.

Suitable substrates and their preparation and the sequence of coats:

The non- or low-absorbent substrates named in the following are suitable. They must be dry as well as free of dirt and separating substances. Any old coats that are to be treated must be tested for their suitability, adhesion and stability. Remove unstable coats. In case of contact with products containing softeners (e.g. door and window sealing), an assurance must be obtained from the manufacturer that this is harmless and/or a test coat must be applied. Please follow Part C of the VOB (German Construction Contract Procedures), DIN 18363, para. 3 and the respective BFS bulletins. Please refer to the statutory regulations in the case of any cleaning work. After sanding work, remove the sanding dust. We recommend creating sample areas before starting any work in order to test the adhesion and quality of the surface.

For interior high-grade door or surface paints: Depending on requirements regarding the paint, 1-2 spatula applications using an appropriate paint spatula are to be carried out after the primer coat. Sand the spatula application accordingly and clean before further processing.

Uncoated wood and wood-based materials:

The maximum wood moisture should not exceed 12% for hardwood and 15% for softwood. Remove greyed wooden layers. Sand, remove dust and / or clean. Burn out resin discharges and wash with universal thinner, smooth edges. On exterior surfaces, apply a primer coat of DiescoLack Wood Protection Primer (DiescoLack Holzschutzgrund).

Primer or intermediate coats: DiescoLack Aqua Undercoat.

Potential finishing coats: DiescoLack Aqua Silky Gloss Paint, DiescoLack Aqua PU Gloss Paint.

On high-stress surfaces, apply a second coat.

Refer to BFS data sheet no. 18.

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Plastics such as hard PVC, polyester etc.:

Sand and clean according to BFS data sheet no. 22. Before application, select a test surface and check adhesion after sufficient drying time.

Base coat: Diessner Aqua Insulating Primer and Adhesion Promoter
Intermediate coat: DiescoLack Aqua Undercoat.
Potential finishing coats: DiescoLack Aqua Silky Gloss Paint, DiescoLack Aqua PU Gloss Paint.
On high-stress surfaces, apply a second coat.

Renovation coats on matte old paint:

Sand faulty areas. Prepare faulty areas depending on material characteristics. Clean substrate. Repair faulty areas using Diesco Aqua Aqua Insulating Primer and Adhesion Promoter.

Renovation coats on silky gloss or glossy old synthetic resin coats*:

Sand faulty areas. Prepare substrate depending on material characteristics. Sand and clean old paint. Create a prime coat using Diesco Aqua Insulating Primer and Adhesion Promoter.

* do not apply on thermoplastic/elastic old paint (e.g. acrylic paint).

Concrete:

Remove any residue of separating agents as well as any multi-grain layers mechanically or using pressure water jets in compliance with the statutory regulations.

Apply a coat of Diessner Acrylic Hydro Primer (Diessner Acryl-Hydrogrund) to absorbent surfaces.

Base coat: Diessner Aqua Insulating Primer and Adhesion Promoter
Intermediate coat: DiescoLack Aqua Undercoat.
Potential finishing coats: DiescoLack Aqua Silky Gloss Paint, DiescoLack Aqua PU Gloss Paint.
On high-stress surfaces, apply a second coat.

Plaster from mortar group CS II, CS III, CS IV in accordance with DIN EN 998-1 = mortar group P II and P III in accordance with DIN V 18550:

Areas to be touched up must have dried out well and set. Apply a fluorosilicate solution and rewash areas to be touched up. Please note: Apply the fluorosilicate solutions to the area including the outer edge and rewash with clear water. If a large area has to be touched up, apply the fluorosilicate solution to the whole area and rewash. Brush down plaster with a multi-grain layer, stabilise by applying fluorosilicate solution and rewash with clear water. Plaster with sintered layers: remove the sintered layer by etching with fluorosilicate solution or etching fluid and rewash with clear water. The plaster must be sufficiently solid; minimum pressure resistance 2.5 N/mm². New plaster should be left untreated for at least 2-4 weeks depending on the plaster after-treatment, time of the year and temperature conditions. Areas to be touched up must have dried out well and set. Apply a coat of Diessner Acrylic Hydro Primer (Diessner Acryl-Hydrogrund) to absorbent surfaces. Test the effectiveness of the primer. Please follow BFS data sheet no. 9.

Primer or intermediate coats: DiescoLack Aqua Undercoat.

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Potential finishing coats: DiescoLack Aqua Silky Gloss Paint, DiescoLack Aqua PU Gloss Paint.
On high-stress surfaces, apply a second coat.

Note

This technical information is compiled to the best of our knowledge and corresponds to our state-of-the-art application technology. However, you can only obtain non-binding advice as the working method in each individual case is dependent on the condition of the structure to be coated and can only be decided on the basis of the actual surface in question. Conditional exceptions are to be taken into account on site. Liability cannot be derived from the aforementioned information.

Due to the different substructure materials and the working conditions that are out of our control, we recommend conducting sufficient tests in each case to ensure the suitability of our products for the intended procedures and purposes.

All previous versions cease to apply with the publication of this technical data sheet.