

Technical data sheet

Diessner House Paint (Diessner Hausfarbe)

Facade paint



High-quality 100% pure acrylic paint for weather-resistant façade cover

- Very good adhesion
- Universally applicable
- Highly weather-resistant
- Impact rain proof, water-resistant
- CO₂-retardant
- Wet abrasion class 1
- Water steam diffusible
- Water-dilutable
- Good coverage
- Elastic
- Easy to handle
- Non-yellowing
- Alkali-resistant, so saponification-resistant

Application

High-quality pure acrylic paint for especially weather-resistant façade coats. Diessner House Paint (Diessner Hausfarbe) offers very good rain-, weather- and CO₂-protection, is easy to use and gives thin, structure-conserving coats with high adhesion for all solid substrates. Suitable substrates are plasters in accordance with DIN EN 998-1 (minimum pressure resistance 2.5 N/mm²), concrete, lime stone, exposed brickwork, pre-primed dimensionally instable wood, zinc-coated surfaces, hard PVC, fibre cement boards, stable, synthetic resin bound façade colours and textured plasters.

With preventive film protection against algae and fungal growth.

Technical data

Binding agent base 100% pure acrylate. Plastic dispersion in accordance with DIN 55947.

Pigment base Titanium dioxide

Classification in accordance with DIN EN 1062

Water vapour permeability: Class V 2 medium, corresponds to sd-value 0,22 m
 Water absorption (W-value): Class W 3 low: corresponds to < 0.1 kg/m² x h^{0.5}
 Thickness: approx. 1.40 g/cm³

Colour White

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Gloss level	Silk-matte
Carbon dioxide diffusion current density	In accordance with kiwa test report P 8355, diffusion-equivalent air layer thickness CO ₂ -sd-value: 1,550 m
Tinting	Can be tinted using Diessner MIX or in the factory or using Diessner full shades and tints (max. 3%). The supplied colours are to be checked for colour accuracy before painting. Please refer to BFS datasheet no. 25. The technical properties can change due to tinting. For intensive colours with poor coverage due to their pigment characteristics, apply an undercoat of Diessner MIX Colour Base outside tinted in the desired colour. For desired ETICS colours below lightness coefficient 20, refer to section: Please note.
Colour fastness as per BFS datasheet no. 26	Class A / group 1,2 and 3 depending on the colour
Container size	1, 5.0 and 12.5 litre container
Storage	Store cool but frost-free. Seal opened containers well and use within a short period. Unopened containers can be kept for a minimum of 24 months.
Coverage	approx. 110-130 ml/m ² for smooth substrates and approx. 120-200 ml/m ² for textured substrates. The specifications are standard values. A trial coat can be applied to determine any differences in the subsurface or handling.
Product code Colours and paint	M-DF 01
VOC content	Class c type wb, VOV limit from 2010 = 40 g/l, max. VOC value < 40 g/l
Hazard identification	R 52/53 Harmful for water organisms. Can have a long-term harmful effect in waterways.
Declaration of ingredients	Pure acrylate, titanium dioxide, calcium carbonate, silicates, water, film forming aids, additives, preservatives, film preservatives. Advice for people allergic to isothiazolinone is available on telephone number +49 (0)30 60 00 02 49.

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Special notes

- S 2** Should be kept out of reach of children.
- S 23** Do not breathe in vapours/aerosols.
- S 24** Avoid contact with the skin.
- S 26** In case of contact with the eyes, rinse thoroughly with water immediately and consult a doctor.
- S 46** In case of swallowing, summon a doctor immediately and show him/her the package or label.

When using in a spraying process, do not breathe in the spray mist and use breathing apparatus during spraying work. Always read and note the label and product information prior to use. Not for interior use. Do not allow the paint to enter drainage systems, waterways or soil. Carefully cover all surfaces that are not to be coated. Rinse any paint sprayed onto surfaces with water whilst still wet. For more information, see EC safety datasheet.

Disposal

Only completely empty containers should be passed on to recycling. Remaining liquid materials should be brought to an authorised collection point for old paint/varnishes. Dried material residues can be disposed of as hard paint or domestic waste. Waste key no. 080112 according to the AVV waste directory regulation.

Handling guidelines

Coating structure

For substrate preparation, refer to: Suitable substrates and their preparation.

Depending on the substrate, thin down the primer with 5-10% water and apply the top coat without thinning down.

Method of application

With brush and roller. Can be applied with airless equipment. If using airless equipment, mix the paint thoroughly before use and thin down and strain if necessary. After the spray coating, work in the material evenly onto the substrate with a paint roller.

Airless application

Nozzle: 0.021" - 0.026"
Spray pressure: 150 - 180 bar
Spray angle: 40° - 50°
Also refer to the special / important notes.

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Lower limit for application temperature

+ 5°C substrate and ambient temperature. The substrate temperature must be at least +3°C above the dew temperature.

Drying time

Surface dry after approx. 6 hours and paintable after 8 hours at a temperature of + 23° C and 50% relative humidity. Considerably longer drying time at lower temperatures and/or higher humidity. During the drying time, the coat must be protected from moisture.

Cleaning the tools/airless equipment

Clean tools/ equipment with water immediately after use.

Please note

Paint should be thinned down with clear water only in the specified quantity; pay attention to the Coating structure section. When applying the coat, please note the VOB (contracting rules for award of public works contracts), part C, DIN 18363, para. 3. For horizontal and slightly inclined surfaces, we recommend planning more frequent renovation intervals (refer to BFS datasheet no. 9 para. 3). Standing water must be excluded on these surfaces. Do not use the material in direct sunlight, strong wind, if there is a risk of rain, mist and/or dew, if the humidity is above 85% and if the ambient, material and subsurface temperature is below +5°C. Protect from exposure to moisture during the application and drying period. Do not apply if the temperature is above +30°C. Not suitable for surfaces with varnish-like old coats. Not suitable for surfaces with salt contamination; do not mix with other coating materials. Before starting the work, carefully cover all surrounding surfaces. Apply the material evenly. To avoid uneven deposits on larger surfaces, it is necessary to apply the coats of paint quickly and wet-on-wet.

Exposure to moisture during the application and drying period may result in damage to the coat in the form of peeling, blistering, premature chalking or spotty wear.

Water-soluble additives can be washed out in the case of severe exposure to moisture (owing to dew, mist, rain and driving rain in particular). In unfavourable cases, these can appear as sticky, slightly shiny run-off stains (leaching of additives). Therefore, protect the coat from any moisture during the drying period. Any run-off stains of additives that are present have no effect on the shelf life of the product and will, in the course of time, be completely removed by any further weathering.

In case of tinted paints, mechanical strain on the surface can lead to changes in colour (so-called brushing effect or breakdown of the filler/pigment). This does not affect the weather resistance.

Do not mix with other coating materials.

In order to achieve a long period of effect of the fungicide/algaecide coat protector, sufficient layer thickness with two coats is necessary. The period of effect is dependent on the conditions of the property, the exposure to moisture and the frequency of the outbreak. The permanent prevention of algae or fungus cannot be guaranteed based on the current state of technology. In case of spray application, pay attention to the sections "Special notes" and "Important notes". Do not mix with other coating materials.

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Revision of ETICS with colours below lightness coefficient 20:

With special factory-made OSR compositions (OSR= optimal solar reflection), it is possible to achieve reduced heating of intensively coloured surfaces. On request, we can provide information about the feasibility and costs of an OSR-adapted colour. Prerequisite for the use of OSR colours is a double reinforcement layer, a white top coat and a double Diessner House Paint FA OSR (Diessner Hausfarbe FA OSR) coat. OSR colours are approved for EPS-ETICS from lightness coefficient 10 and for mineral wool ETICS, from lightness coefficient 5. Coats below the coefficient 5 are permitted only after consultation and approval of Diessner Technology Department.

Substrate preparation

Substrates must be solid, dry, free of dirt, blooming, discolouration, fungal growth, sintered layers, multi-grain layers, chalking layers and separating substances. Mineral substrates must be hardened (carbonated) and dry for a sufficiently long time. The substrate must be tested for suitability, adhesiveness and carrying ability. Please note the VOB (contracting rules for award of public works contracts), part C, DIN 18363, para. 3 and the respective BFS bulletins. In case of cleaning work, the legal regulations are to be adhered to. We recommend creating sample areas before starting any work in order to test the effectiveness and quality of the surface. After drying, the efficiency of the used primer is to be checked.

Lime plasters or plasters containing cement 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 plastered or touched up must be dried out well and set. Touch-up spots must be treated and washed with clear water. If a large area has to be touched up, apply the fluosilicate solution to the whole area and rewash. Brush down plasters with a multi-grain layer, clean with a power-washer, stabilise by applying fluosilicate solution and rewash with clear water. Remove existing sintered layers by etching with fluosilicate solution or etching fluid and rewash with clear water. Remove impurities. Apply a coat of Diessner Hydrosol-Tiefgrund to strongly absorbent plasters. Apply 1-2 base coats, wet on wet, of Diessner Hydrosol-Tiefgrund to surfaces that are lightly sanded and ultra-absorbent. Test the effectiveness of the primer. Please refer to BFS datasheet no. 9.

Concrete:

Concrete must be well dried-out and set. 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 primer coat using Diessner brush-on primer and adhesion promoter (Diessner Streich- und Haftgrund WP) to smooth surfaces. Apply a coat of Diessner Hydrosol-Tiefgrund to strongly absorbent surfaces.

Stable gloss or emulsion paints:

Abrade any shiny old coats. Clean dirty, easily chalking surfaces using pressure water jets. (Pay attention to statutory regulations when cleaning). Allow the subsurface to dry out well. Apply a base coat with Diessner Streich- und Haftgrund WP.

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Stable synthetic resin plaster coatings:

Clean dirty, easily chalking surfaces by using pressure water jets. (Pay attention to statutory regulations when cleaning). Allow the subsurface to dry out well. Apply a base coat of Diessner Streich- und Haftgrund WP.

Unstable gloss, emulsion paints or synthetic resin plaster coats:

Completely remove with an appropriate method (e.g. mechanically or using high pressure hot water cleaning or stripping incl. subsequent cleaning in compliance with the statutory regulations). Allow the subsurface to dry out well. Apply a base coat of Diessner Hydrosol-Tiefgrund on strongly absorbent surfaces or a base coat of Diessner Streich- und Haftgrund WP.

Limestone wall:

New brickwork should have dried out completely. Only frost-resistant fair-faced bricks or clinkers without any foreign particles are suitable for coating. The brickwork must have been grouted without cracks and free from salt efflorescence. Apply a coat of Diessner Hydrosol-Tiefgrund to strongly absorbent surfaces. Please refer to BFS datasheet no. 2.

Exposed brickwork:

New brickwork should have dried out completely. Only frost-resistant fair faced bricks or clinkers without any foreign particles are suitable for coating. The brickwork must have been grouted without cracks and free from salt efflorescence. Apply a base coat of Diessner Streich- und Haftgrund WP. Refer to BFS datasheet no. 18. If there is brown discolouration after the first coat, then use solvent-based façade paint for the further coats.

Fibre cement boards:

Neutralise new highly alkaline boards. Apply a base coat of Diessner Hausfarbe (House Paint), diluted with max. 5% water, on smooth, weakly absorbent surfaces. Apply a base coat of a solvent-based deep penetrating primer on weathered, absorbent surfaces. Coat freely arranged slabs, including rear and edges.

Fibre cement boards with high-compression coats (e.g. Glasal): Check the adhesion of the coat. Apply a primer from Diessner beforehand. Asbestos cement boards: Pay attention to the respective statutory regulations and the BFS datasheet no. 14.

Wood, not dimensionally stable:

Please refer to BFS datasheet no. 18. In case of new wood, remove resin discharges, pitch pockets and fats. Sand greyed UV-weathered wood layers up to the healthy wood. The max. wood moisture should not exceed 12% in case of hardwoods and 15% in case of softwoods. A base coat of DiescoLack Holzschutzgrund (Wood Protection Primer) should be applied on exterior surfaces to protect against fungal growth that can damage or discolour the wood. A coat of Diessner Multi-Isoprimer is required for wood with discolouring contents.

Galvanised surfaces:

Clean the zinc surface with ammoniac wetting agent or with a special zinc purifier using an abrasive fabric. Rewash with clean water. Please refer to BFS datasheet no. 5.

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White bloom defects can become visible through the coat if there is strong moisture penetration. Remove the bloomings dry and apply an additional coat of Diessner Hausfarbe (House Paint).

Hard PVC:

Please refer to BFS datasheet no. 22. Clean with fat-dissolving cleaning agents. Sand well and clean.

Surfaces with algae or fungal growth:

Use water to remove the layer of algae or fungus. Treat the surfaces with Diessner Toxol. Pay attention to the technical information for Diessner Toxol. Apply a coat of primer depending on the subsurface.

Salt efflorescence:

Do not prime with deep penetrating primer that can be thinned down with water. Dry-remove salt efflorescence by brushing down. Apply basecoat of deep primer containing solvents.

Please note: When coating surfaces with salt efflorescence, permanent guarantee or prevention cannot be granted.

Smaller imperfections:

After appropriate preparatory work, repair with Diessner Façade Filler (Diessner Fassadenspachtel) in accordance with the handling instructions and re-prime if necessary.

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 datasheet.