

Amphibolin-W

Matt, special façade paint, provided with a preservative against deterioration in the coating due to algal and fungal attack.



Product Description

Field of Application	<p>Excellently suitable for coating synthetic resin-bound (organic) renders/plasters and ETICS/EWI systems (external thermal insulation composite systems with EPS boards and organic textured renders). The coating has a protective effect against aggressive air pollutants. Amphibolin-W is provided with a preservative against deterioration in the coating due to algal and fungal attack.</p>
Material Properties	<ul style="list-style-type: none"> ■ Water-thinnable and low odour ■ Provided with a film preservative against algal & fungal attack (fungi/mildew/mould infestation) ■ Weather-resistant ■ Alkali-resistant, hence unsaponifiable ■ Easy to apply
Material Base / Vehicle	Synthetic resin dispersion/emulsion according to DIN 55945
Colours	<p>White.</p> <p>Amphibolin-W can be tinted up to max. 5 % with CaparolColor or Amphibolin colourants. If more than one bucket is manually tinted, all material must be thoroughly mixed before use in order to avoid colour differences. Quantities of 100 litres or more in individual colour shades may be ordered ready-tinted from the factory.</p> <p>Check tinted material prior to the application to avoid colour differences. Use always tinted material of the same batch, when applying on continuous surfaces.</p> <p>Brilliant, intensive colour shades may have a lower opacity (hiding/covering power). It is therefore advisable to apply a first coat in a similar hiding pastel tint, based on white. Possibly a second finishing coat may be necessary.</p> <p>Colour Resistance according to BFS Data Sheet No. 26: Class: B Group: 1 to 3 depending on the colour shade</p>
Gloss Level	Matt (flat), G ₃
Storage	Keep in a cool, but frost-free place.
Technical Data	<p>Characteristics according to DIN EN 1062</p> <ul style="list-style-type: none"> ■ Density: Approx. 1.6 g/cm³ ■ Maximum grit size: < 100 µm, S₁ ■ Dry film thickness: 100 - 200 µm, E₃ ■ Water permeability (w-value): ≤ 0.1 [kg/(m² · h^{0.5})] (low), W₃ ■ Water vapour permeability (sd-value): ≥ 0.14 - < 1.4 m (medium), V₂ Tinting may cause variations.



Application

Suitable Substrates
Substrate Preparation

The substrate must be sound/stable, dry, clean, and free from all materials that may prevent good adhesion. In Germany: Follow VOB, part C, DIN 18363, paragraph 3.

Exterior Surfaces:

Renders/Plasters of Mortar Group/Class PII (Lime-Cement Mortars) and PIII (Cement Mortars):
New renders/plasters must be left untreated for a sufficiently long time, normally for 2 weeks at 20 °C and 65 % relative humidity. Adverse weather conditions, influenced e.g. by wind or rain, extend the curing process and correspondingly longer idle times must be respected. The risk of calcareous efflorescence is reduced by an additional priming coat of CapaGrund Universal and the alkaline finishing render/plaster may be coated after a delay of 7 days.

Existing renders/plasters: Repairs must have adequate time to cure and dry. Highly porous, absorbent, slightly sanding renders/plasters: Apply one priming coat of OptiGrund E.L.F. or CapaSol LF. Prime highly sanding, chalking renders/plasters with Dupa-grund. Coat mineral lightweight renders/plasters of mortar group PII with ThermoSan.

Concrete:

Concrete surfaces with dirt deposits or fines/sintered layer must be cleaned mechanically or with high pressure jet, in compliance with the regulations. Apply one priming coat of CapaGrund Universal on slightly absorbent or even surfaces. Apply one priming coat OptiGrund E.L.F. on highly porous, slightly sanding or absorbent surfaces. Prime chalking surfaces with Dupa-grund.

Fibre Cement Boards (with or without Asbestos Fibres):

In Germany: Follow BFS Data Sheet No. 14 and TRGS 519 for coatings on asbestos cement boards. Prime in accordance with Technical Information No. 650. Prime free-standing boards on both sides as well as on all edges. Prime new, highly alkaline fibre-cement boards with Disbon 481 EP-Uniprimer to avoid calcareous efflorescence.

Cement-Bound Wood Chipboards (Particle Boards):

Apply one priming coat of Disbon 481 EP-Uniprimer on highly alkaline boards to prevent calcareous efflorescence.

Fair-Faced Brick Masonry:

Only absorbent clinker bricks of frost resistant quality and free of foreign inclusions are suitable for exterior coatings. Masonry must be dry and free of salts/salty efflorescence, jointing must be free of cracks. Apply one priming coat of Dupa-grund. If brown discolouration appears on the intermediate coat, then recoat with solvent-based façade paint Duparol-W.

Sound Coats of Enamel or Dispersion/Emulsion Paint:

Roughen/sand the surface of enamels or glossy coatings and remove all sanding dust. Clean soiled, chalking coats of paint by high pressure water jet, in compliance with the regulations. Apply one priming coat of CapaGrund Universal. If other cleaning methods are used (washing, wire brushing, hosing with water), then prime with Dupa-grund.

Sound Existing Silicate Paints and Renders/Plasters:

Coat with ThermoSan.

Sound Synthetic Resin-Bound (Organic) Renders/Plasters and ETICS/EWI Systems:

Clean existing renders/plasters by suitable means. Allow wet cleaned surfaces to dry thoroughly. Apply one priming coat of CapaGrund Universal. New renders/plasters can be coated without pre-treatment.

Unsound Mineral Coatings:

Remove the coating completely by sanding off, brushing off, scraping off, using high pressure water jet in compliance with the regulations, or treat with other suitable methods. Allow wet cleaned surfaces to dry thoroughly before further treatment. Prime with Dupa-grund.

Unsound Coatings of Enamel, Dispersion/Emulsion Paint or Synthetic Resin-Bound (Organic) Render/Plaster:

Remove completely by suitable means, e.g. mechanically or via paint stripper, followed by surface cleaning with a high pressure steam jet in compliance with the regulations. Apply one priming coat of CapaGrund Universal on slightly absorbent or even surfaces. Apply one priming coat of Dupa-grund on chalking, sanding, absorbent surfaces.

Surfaces Contaminated with Industrial Gases or Soot:

Coat with solvent-based façade paint Duparol-W.

Cracks in Renders/Plasters or Concrete:

Coat with Cap-elast Phase 2-W.

Unpainted Sand-Lime Brick Masonry:

Coat with ThermoSan.

	<p>Surfaces with Salty Efflorescence: Remove salty efflorescence thoroughly by dry wire brushing and prime with Dupa-grund. Coating of such surfaces must be considered a risk for which we cannot accept responsibility, since even after the most thorough treatment the efflorescence may recur.</p> <p>Defects: Repair small defects with Caparol Fassaden-Feinspachtel (fine filler), deeper damages up to 20 mm preferably with Histolith Renovierspachtel and prime repaired areas subsequently.</p>
Method of Application	Apply with paint brush or roller. Clean tools immediately after use with water.
Surface Coating System	Remove algal & fungal attack (fungi/mildew/mould infestation) by wet blasting, in compliance with the regulations. Then treat the surface with Capatox or FungiGrund and allow to dry thoroughly.
	<p>First or Intermediate Coat Amphibolin-W, diluted up to max. 10 % with tap (potable) water.</p> <p>Finishing Coat: Amphibolin-W, diluted up to max. 5 % with tap (potable) water.</p>
Consumption	Approx. 150 ml/m ² per coat on an even substrate. On rough-textured surfaces correspondingly more. The exact rate of consumption is best established by a trial application.
Application Conditions	<p>Lower Temperature Limit for Application and Drying: +5 °C for material, substrate and ambient air.</p>
Drying/Drying Time	At +20 °C and 65 % relative humidity surface-dry and recoatable after 4 - 6 hours, rain resistant after 24 hours. Lower temperatures and higher relative humidity extend the drying time.
Note	<p>Do not mix with other paint materials to preserve the product specific properties. Do not apply in direct sunlight or on sun heated substrates, during strong wind, fog or rain, high relative humidity or imminent rain or frost. To avoid lapping, the material should be applied wet-on-wet and without interruption. Do not apply on horizontal surfaces exposed to rain or moisture.</p> <p>Amphibolin-W contains special algicidal and fungicidal agents to counteract the forming of organic growth (algae & fungi/mildew/mould) on the coating. The depot of agents offers a prolonged protection, but the algicidal & fungicidal effect is limited by the special façade conditions, e.g. intensity of organic attack/infestation and moisture. A durable protection cannot be guaranteed.</p> <p>In case of moist weather conditions (rain, dew, fog) yellowish transparent traces of additives, showing a slightly glossy shine and stickiness, may occur on the surface of compact, cool substrates or by means of delayed drying caused by the weather. The traces of additives are water-soluble and will disappear under the influence of a sufficient water quantity, e.g. repeated intensive rainfalls. The quality of the dried coating will not be affected by these changes. In case of direct reworking, all traces of additives must be pre-wetted and completely removed after a short reaction time. An additional priming coat of CapaGrund Universal must be applied. The traces cannot occur when the material is applied under suitable climatic conditions.</p> <p>Touching up surfaces is depending on many parameters and may be visible after drying. (In Germany: See BFS Data Sheet No. 25)</p>

Advice

German Certificates

- Amphibolin-W Effectiveness against algal attack
- Amphibolin-W Effectiveness against fungal attack (fungi/mildew/mould infestation)

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Keep out of the reach of children.
 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 After contact with skin, wash immediately with plenty of water and soap.
 Do not empty into drains, water courses and onto the ground.
 If swallowed, seek medical advice immediately to avoid harm to the intestinal bacteria.
 Apply only by paint brush or roller.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures.
 In Germany: Only completely emptied containers should be given for recycling. Dispose containers with residues of liquid material as remnants of water-based paints and dried material as hardened paints waste or via domestic waste.

EU limit value for the VOC content

of this product (category A/a): max. 30 g/l (2010). This product contains max. 30 g/l VOC.

Product Code Paints and Enamels

M-DF02 F

Substances of Content - Declaration

Acrylic resin dispersion (emulsion), titanium dioxide, silicates, calcium carbonate, water, film forming agent, additives, film preservative

Further Details

See Safety Data Sheet (MSDS).

Technical Assistance

As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries. We will describe appropriate working methods, if a substrate not specified above is to be coated.

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All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No. 105 · Amphibolin-W · Issued: December 2010

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