

AmphiCryl

High quality acrylic water-based paint for external use



Product Description

Field of Application	<p>High quality acrylic water-based paint for external use. Suitable for the painting of walls, cement, cement boards, plasters, etc. after the appropriate pre-treatment. The AmphiCryl has excellent whiteness and coverage and due to its composition gives very good weather resistance.</p> <p>Available in White and tinting bases in packages of 0.7L, 2.5L and 10L and in infinite number of shades through the Caparol ColorExpress tinting system.</p>
Material Properties	<ul style="list-style-type: none">■ Resistant to weather conditions and UV-radiation■ Excellent whiteness and coverage■ Easy application■ High resistance to alkalis.■ Very good adhesion■ High performance
Material Base / Vehicle	Synthetic resin dispersion/emulsion.
Packaging/Packaging size	<ul style="list-style-type: none">■ ColorExpress: 0,7 l, 2,5l, 10 l
Colours	<p>White (Base 1 and 2) and transparent (Base 3).</p> <p>In order to detect possible tinting errors, please check for colour accuracy before processing. In case of conspicuities or deviations from the delivery target (e.g. colour shade deviations) or from the usual quality, please also observe the " Leitfaden zu Prüfpflichten bei Anlieferung von Tönware des Verbandes für Dämmsysteme, Putz und Mörtel e.V." in Germany (brochures and leaflets - VDPM).</p> <p>Only use colour shades of one production (batch) on continuous surfaces. AmphiCryl (Base 1) is self-tintable with CaparolColor full tone and tinting colours or AmphiColor full tone and tinting colours. In case of self-tinting, mix the required total quantity to avoid differences in colour shade. Intense colours may have a lower hiding power. It is therefore advisable to apply a comparable, opaque, whitebased, pastel colour shade first. A second top coat may be necessary.</p> <p>Colour fastness according to BFS-Merkblatt No. 26: Class: B Group: 1 – 3, depending on shade.</p>



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Gloss level Matt, G₃ according to DIN EN 13 300.

Storage Keep in a cool, but frost-free place.

Technical data

- Density: Approx. 1,4 - 1,6 g/cm³
- Maximum particle (grit) size: < 100 µm, Class: S₁
- Dry film thickness: 100 – 200 µm, Class: E₃

Suitability according to
Technical Information No. 606
Definitions of Application Areas

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
-	-	-	+	+
(-) inapplicable / (0) of limited suitability / (+) suitable				

Application

Suitable Substrates

The substrates must be free from dirt, separating substances and dry. In Germany observe "VOB, Part C, DIN 18363, Paragraph 3".

For substrate pre-treatment, please also observe our Technical Information No. 650 "Substrates and their pre-treatment".

Substrate Preparation

Renders/Plasters in Mortar Groups/Classes PII (Lime-Cement Mortars) and PIII (Cement Mortars) / Minimum Compressive Strength according to DIN EN 998-1: 1.5 N/mm²:

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 applying 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 Sylitol or AmphiSilan materials.

Concrete:

Surfaces with dirt deposits or fines/sintered layer must be cleaned by mechanical means 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 of OptiGrund E.L.F. on highly porous, slightly sanding or absorbent surfaces. Prime chalking surfaces with Dupa-grund.

Cement-Bound Wood Chipboards (Particle Boards):

Due to the high alkalinity of cement-bound wood chipboards (particle boards) one priming coat of Disbon 481 2K-EP-Universalprimer must be applied, to prevent the forming of calcareous efflorescence.

Facing Brickwork:

Only absorbent clinker bricks of frost resistant quality and free of foreign inclusions are suitable for exterior coatings. Masonry/brickwork 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 facade paint Duparol.

Stable Existing Enamel Coatings or Coats of Dispersion/Emulsion Paint:

Roughen/sand glossy surfaces and enamel coatings. Wash off soiled or chalking coats of paint by high pressure water jet, in compliance with the regulations. Prime with CapaGrund Universal. Prime with Dupa-grund, if other cleaning methods are used (washing, wire brushing, hosing with water).

Stable Synthetic Resin-Bound (Organic) Renders/Plasters:

Clean existing renders/plasters by suitable means. Allow wet cleaned surfaces to dry thoroughly before further treatment. Apply one priming coat of CapaGrund Universal. Coat new renders without pretreatment.

Stable Existing Silicate Paints and Renders/Plasters:

Coat with Sylitol or AmphiSilan materials.

Unstable Mineral Coatings:

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

Unstable 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.

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Surfaces Contaminated with Factory Fumes or Soot:

Coat with solvent-based facade paint Duparol.

Surfaces with Fungal (Fungi/Mildew/Mould) or Algal Attack:

Coat with the special fungicidal and algicidal facade paint Amphibolin-W.

Cracks in Renders/Plasters or Concrete:

Coat with the crack covering system Cap-elast.

Unpainted Sand-Lime Brick Masonry:

Coat with Syllitol or AmphiSilan materials.

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.

Defects:

After having completed the necessary preparations, repair small defects with Caparol Fassaden-Feinspachtel and large defects (up to 20 mm) preferably with Histolith Renovierspachtel. Prime repair patches subsequently.

Method of Application

Apply with paint brush, roller and spraying equipment.

Airless application:

Spray angle: 50°

Nozzle size: 0.018–0.021"

Spray pressure: 150 - 180 bar

Surface Coating System

Priming or Intermediate Coat:

AmphiCryl, diluted up to a max. of 10 % with tap (potable) water. By adding max. 10 % tap (potable) water for use as overhaul coating can be omitted in most cases on an additional priming coat.

Finishing Coat:

AmphiCryl, diluted up to a max. of 10 % with tap (potable) water.

Consumption

Approx. 140 ml/m² per coat on an even substrate. On rough-textured surfaces correspondingly more. The exact consumption is best established by a trial coating on site.

Application Conditions

Lower Temperature Limit for Application and Drying:

+5°C for product, substrate and ambient air.

Drying/Drying Time

At +20 °C and 65 % relative humidity surface-dry and recoatable after 4 - 6 hours. Completely dry and ready for stress after approx. 3 days. Lower temperatures and higher humidity extend the drying time.

Tool Cleaning

Clean tools with water after use.

Note

Stir and sieve the paint thoroughly before airless spray application. To avoid lapping, the paint should be applied wet-on-wet and without interruptions. Do not apply AmphiCryl on horizontal surfaces exposed to rain/water or moisture.

Facades in special climatic conditions (high moisture content) or subjected to a higher influence of atmospheric exposure: It is recommended to apply our products ThermoSan, Amphibolin-W or Duparol-W. These special paints contain a preservative against deterioration in the coating film due to algal and fungal attack (delaying infestation).

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 do not occur when the material is applied under suitable climatic conditions.

Touching up surfaces is depending on many parameters and may be visible after drying. (In Germany: See BFS Data Sheet No. 25).

Advice

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

- **Base 1:** If medical advice is needed, have product container or label at hand. Keep out of reach of children. Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-methylisothiazol-3(2H)-one. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist
- **Base 2:** If medical advice is needed, have product container or label at hand. Keep out of reach of children. Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- **Base 3:** If medical advice is needed, have product container or label at hand. Keep out of reach of children. Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), . May produce an allergic reaction.

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.

EU limit value for the VOC content

- **Base 1:** of this product (category A/c): 40 g/l (2010). This product contains max. 20 g/l VOC.
- **Base 2:** of this product (category A/c): 40 g/l (2010). This product contains max. 30 g/l VOC.
- **Base 3:** of this product (category A/c): 40 g/l (2010). This product contains max. 30 g/l VOC.

Substances of Content - Declaration

- **Base 1:** polyacrylic resin, calcium carbonate, titanium dioxide, silicates, mineral pigments / fillers, water, glycol ethers, additives, preservative.
- **Base 2:** polyacrylic resin, calcium carbonate, silicates, titanium dioxide, water, glycol ethers, ester alcohol, additives, preservative.
- **Base 3:** polyacrylic resin, calcium carbonate, silicates, water, glycol ethers, ester alcohol, additives, preservative.

Customer Service Centre

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.

Respect all the provisions from the technical information, referring to the storage, substrate preparation and method of application of the product.

☎ 0800.800.600

✉ tehnica@caparol.ro

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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/appliator 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.