

## Orbit-Hausfarbe Guard

Pure acrylate paint für thin-film exterior paint coats.  
For universal use on nearly all kinds of substrates around the house. The well-approved Guard technology protects the coating against early algae and fungae infestation.



### Product characteristics

<b>Properties</b>	<ul style="list-style-type: none"> <li>Preventive concrete protection (impermeable to CO<sub>2</sub>-)</li> <li>High resistance against the so-called "writing effect" (white marks due to mechanical stress like scratching)</li> <li>Colour consistency class A according to BFS-Fact Sheet No. 26</li> <li>Extreme adhesion on nearly all kinds of substrates</li> <li>Photocatalytic effect</li> </ul>
<b>Areas of application</b>	Exterior only
<b>Suitable substrates in detail</b>	<ul style="list-style-type: none"> <li>Existing sound and organic paint layers</li> <li>Concrete surfaces</li> </ul>

### Material description

<b>Binder</b>	Pure acrylate dispersion
<b>Ingredients</b>	<p>Titanium dioxide</p> <p>Fillers</p> <p>Additives</p>
<b>Density</b>	1.4 kg/l
<b>Water vapour permeability</b>	V 2 (> 0,14 ud <1,4 m)
<b>Preventive concrete protection (sd-CO<sub>2</sub>-value)</b>	> 50 m
<b>Water absorption coefficient (w-value)</b>	W 3 ( $\leq 0,1 \text{ kg/m}^2 \text{ h}^{0,5}$ )
<b>Maximum particle size</b>	Fine
<b>Average consumption (short text)</b>	approx. 120 - 180 ml/m <sup>2</sup>
<b>Average consumption</b>	The consumption varies depending on the application technique and the substrate. It is therefore advisable to determine the exact consumption figure by producing a sample area.
<b>Colour shade</b>	White
<b>Suitable tinting paints</b>	Tinting with system-matching tinting pastes via the ALLFAcolor tinting machine, ready-mixed at the factory or with commercially available tinting and full colour paints or tinting concentrates. Please note that with tinted products the specified properties may change.
<b>Gloss level</b>	Silk-mat
<b>Class accord. to BFS fact sheet no. 26</b>	A
<b>Group accord. to BFS fact sheet no. 26</b>	Groups 1 to 3 depending on colour shade

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<b>Storage</b>	Cool, but protected from frost
<b>Thinning</b>	Water
	First and intermediate coat: 3%, finishing coat preferably unthinned.

### Substrates

<b>Suitable substrates</b>	<p>All usual mineral substrates (plasters/renders, concrete, masonry) Adherent existing paint layers</p> <p>All kinds of wood and timber derived products</p> <p>Plastics and non-ferrous metals</p>
<b>Substrate conditions</b>	The substrate must be clean, dry, frost-free, firm and sound as well as free from efflorescences, algae, moss, fungal attack, sinter layers and release agents. Follow the building regulations (in Germany VOB, Part C, DIN 18363, Section 3).
<b>Substrate conditions</b>	<p><b>Concrete</b> Remove forming oil, grease and wax by washing with surfactant. Remove any sintered layers mechanically. Check the absorbency of the concrete by wetting tests. In addition, the guidelines according to BFS Fact Sheet No.1 apply for exterior coatings and the guidelines according to BFS Fact Sheet No. 8 for interior coatings.</p> <p><b>Base renders (exterior):</b> Mineral base renders must be thoroughly cured and dry, because otherwise discolouration, in particular with tinted following coats, may occur. As a rule of thumb assume 1 day drying time per mm of layer thickness, but correspondingly longer at low temperatures and high humidity. Excessive temperatures and low humidity also lengthen the setting process. Treat replastered locations with fluosilicate. In addition, the guidelines according to BFS Fact Sheet No. 9 apply.</p> <p><b>Metal and synthetic substrates</b> This product can be applied on e.g. zinc, non-ferrous metals etc. With coatings on these substrates, corresponding substrate preparations have to be considered, such as degrease by washing with wetting agent. Corroding substrates must be isolated beforehand by means of appropriate priming coats. Orbit Grund can be used as bonding agent. In addition, the guidelines according to BFS Fact Sheet Nos. 5 + 6 apply. With coatings on synthetic substrates, preliminary works have to be taken into consideration, such as degrease and sanding. Orbit Grund can be used as bonding agent. Due to the large variety of synthetics, a test area on the concerning substrate is strongly recommended. In addition, the guidelines according to BFS Fact Sheet No. 22 apply.</p>
<b>Substrate preparations</b>	<p><b>Wooden components</b> Sand/grind wood surfaces in fibre direction, clean thoroughly and remove seeping wood components such as resin and resin galls. Remove sharp edges. <b>Follow BFS-Fact Sheets Nos. 18 and 20.</b></p> <p><b>Iron, steel</b> Prepare iron and steel as to match standard purity degree SA 21/2 (abrasive blasting) or ST3 (mechanically) in compliance with DIN EN ISO 12944-4.</p> <p><b>Zinc, rigid PVC</b> Preparation by ammonia-water solution containing a wetting agent, using a synthetic non-woven abrasive. In compliance with BFS Fact Sheets Nos. 5 and 22 also possible with Gescha MultiStar (universal concentrated detergent) using a non-woven abrasive or by sweep blasting.</p> <p><b>Aluminium</b> Clean with nitro-cellulose thinner or phosphoric-acid solution using a synthetic non-woven abrasive, in compliance to BFS Fact Sheet No. 6.</p> <p><b>Copper</b> Prepare with Gescha MultiStar (universal concentrated detergent) at a mixing ratio of 1:5 (with water), using a synthetic non-woven abrasive.</p> <p><b>Existing paint layers</b> Existing paint layers have to be sanded/grinded and/or leached. Non-sound paint layers must be removed.</p>

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### Application

<b>Application method</b>	Application by brush, roller or spraying
<b>Spraying data</b>	<p>Spray pressure in bar: 200 (160 ) / spraying angle: 50° / nozzle size in inch: 0,021- 0,023 / sieve size in mesh: 60 / approx. thinning: 5%</p> <p>Low-mist: suitable airless systems with an output of at least 4 L / min. Working pressure in bar: 70 - 90 / spraying angle: 20° - 50° / nozzle size in inch: 0,021 - 0,023 / sieve size in mesh: 60 / approx. thinning: 5%.</p>
<b>Coating system</b>	<p><b>Initial coating</b> <b>Priming coat</b> with L-66 Tiefengrund, L-66 Tiefengrund mixed with Grundierfarbe P 1:1, with Tiefgrund LKF or with Tiefgrund W. <b>Intermediate coating</b> thinned to max. 3%. <b>Finishing coating</b>: preferably unthinned.</p> <p><b>Initial coating on concrete (exterior)</b> <b>Priming coat</b> with L-66 Tiefengrund, L-66 Tiefengrund mixed with Grundierfarbe P 1:1. Alternatively with MultiGrund 3 in 1LEF. <b>Intermediate coating</b> thinned to max. 3%. <b>Finishing coating</b> preferably unthinned.</p> <p><b>Recoatings</b> <b>Priming coat</b> with L-66 Tiefengrund mixed with Grundierfarbe P 1:1, or with Grundierfarbe WP (in case of highly absorbent old coatings also Tiefgrund LKF or Tiefgrund W). <b>Intermediate coating</b>: thinned to max. 3%. <b>Finishing coating</b>: preferably unthinned.</p> <p>Due to the great variety of our production range and individual applications, other primers and coating systems are possible. Please refer to our technical service for support.</p>
<b>Application</b>	The material can be applied by brush, roller or "low-mist" airless system. When painting, pay attention to spread the material liberally and homogeneously, in order to achieve a coat thickness which is necessary for the durability.
<b>Application hints</b>	Do not apply under a glaring sun, during strong wind or on warm substrates.
<b>Note</b>	<p>Among other things colour stability depends on the pigment. Organic (true colors) pigments are less colour stable than inorganic (earth colours) pigments. With alkaline substrates and silicate based products only use inorganic colours and pigments. Basically, materials with lower binder capacity should only be tinted in pastel shades. With matt, intensely tinted materials mechanical stress (scratching) may result in bright stripes. In Germany the BFS Fact-Sheet No. 26 applies.</p> <p>Check tinted paint for colour accuracy prior to the application. Objections regarding the colour shade cannot be accepted after the application.</p> <p>Plasto-elastic joints should not be coated as the higher elasticity of the sealing mass might cause cracks or discolouration of the coating. In individual cases tests have to be carried out to judge the suitability.</p>
<b>Practical hints</b>	<p><b>Masking Works</b> Always use UV-resistant adhesive tapes for exterior works. On completion of the coating, particularly with dispersion paints and / or higher layer thicknesses, immediately remove adhesive tapes, in order to avoid untidy contours.</p> <p><b>Repairs</b> Touching up surfaces may be more or less visible, even with using the original coating material. Traces are unavoidable according to BFS Fact Sheet No. 25. Whether a repair is considered as optically disturbing is depending on many parameters, like colour shade, gloss level, layer thickness, substrate, illumination etc. It is advisable to apply a test coating on inconspicuous places.</p> <p><b>Washing out with early Moisture Load</b> After the application, an early exposure to moisture (dew, fog, rain) may result in a washing out of additives or emulsifiers off the still not dry coating. This will be visible on the surface as transparent traces with a slightly glossy shine. These additives are water-soluble and disappear under the influence of rain, once the coating is dry. If such surfaces must be directly coated, the traces should be washed off thoroughly.</p>

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### Colour Accuracy / Metamerism

The perception of colour shades is influenced by various parameters, such as light, gloss, angle, structure. Substrates of different degrees of irregularities may have different effects despite having been coated with the same material. Coating materials of the same hue but of different gloss levels also appear to be different. Various materials of the same colour shade that appear to be matching by daylight may show strong deviations in artificial light (metamerism effect). In case of increased requirements on matching colours of different building parts, materials and / or surfaces, the BFS Fact Sheet No. 25, section 4.2.2. can be taken into consideration.

### Sidelight

Unfavourable lighting conditions (sidelight) may occur for instance after the subsequent installation of lights. This fact must be known before works. Specific requirements on evenness and uniformity of the coating have to be previously agreed upon.

### Continuous Surfaces

Before processing on continuous surfaces, especially with tinted material, check for colour consistency or mix the required quantity in advance. In order to avoid laps, apply wet-on-wet.

### Recoating of Joint Sealing Compounds

Basically and if possible do not coat elastic joint sealing compounds. If however required, the coating is only possible provided that the sealing compound and coating material are suitable and compatible according to DIN 52452-4 (in Germany). The higher elasticity of the sealing compound may produce hairline cracks in the coating as well as discolouration of the paint. Due to the large variety of products available on the market, we recommend to produce test areas.

### Temperature limit

Between + 5° C and + 30° C for substrate and ambient air during processing and drying.

### Drying time

At + 20° C for substrate and ambient air and 65% relative humidity (RH), allow to dry for approx. 4 hours. Lower temperature or a higher humidity extend the drying time.

### Tool cleaning

Immediately after use with water and soap

## Information

### Hazard statements and safety advice

May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Do not get in eyes, on skin, or on clothing. Wear protective gloves/ eye protection. If on skin: Wash with plenty of soap and water. **Contains:** 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

According to European Regulations 528/2012 this product is defined as a "treated article" (not a biocidal product) and contains the following biocidal substance: Terbutryn (CAS-No. 886-50-0), zinc pyrithione (CAS-Nr. 13463-41-7), 2-Octyl-2H-isothiazol-3-one (CAS-Nr. 26530-20-1)

### Declaration of ingredients

Polyvinylacetate resin, polyacrylic resin, polysiloxane, titanium dioxide, silicates, calcium carbonate, water, additives, Preservative, film preservatives

### Observe safety data sheets

Further details: See Safety Material Data Sheet (MSDS)

### Category VOC

EU limit value for the VOC contents of this product: (Category A/c) 40g/l (2010). This product contains max.

### VOC content (in gram per litre)

< 1 g/l

### WHC

1 (weakly water-polluting)

### Waste disposal

Only completely emptied containers should be given for recycling. Dispose containers with residues of liquid product via waste collection point accepting old paints and enamels. Dispose dried hardened product residues as construction site/demolition/ municipal or domestic waste.

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### Container size

Content	EAN code	Article no.
12,5 L	4002822712877	559862

### System specific and system completing products

Grundierfarbe WP

Acryl-Streichvlies

Tiefgrund LKF

This data sheet cannot deal with all types of application arising in practice. Therefore, we cannot be held responsible for their content. These instructions do not release the purchaser / applicator from his responsibility of professionally examining the substrate and determining the suitability of the product in consideration of the project characteristics. In case of queries please request the technical assistance of ALLIGATOR FARBWERKE.