

## Multi-Grund 3 in 1 LEF

Ready-for-use, pigmented special primer with lime blocker for the application outside and inside. System matching primer for Orbit-Hybrid, Art Nobile and Art Velluto. Ideally increases the open time for following lap-free coatings.



### Product characteristics

#### Properties

- Optimum prolongation of the open time (extends the open time by six times for following interior paints)
- Achieves lap-free coatings
- Protects against efflorescence with mineral substrates
- Ideal for Art Nobile and Art Velluto
- Prevents reactions between gypsum plasterwork and subsequent silicate based coatings
- Good adhesion
- Solvent- and plasticizer-free
- The white product can be tinted via the ALLFAcolor tinting system
- Ready-for-use

#### Areas of application

Exterior and interior

#### Suitable substrates in detail

- Creates solid, sound and non-slip surfaces
- Adhesion promoter for subsequent decorative coatings
- Reduces the absorbency of the substrate
- Increases the open time for subsequent paint coatings
- For subsequent paint coatings based on silicone-resin, dispersion and sol-silicate on interior and exterior surfaces and based on silicate for interior surfaces
- Applied onto fresh lime cement based renderings, whitish discolouration, which are due to lime efflorescence, are reduced. Thus Multi-Grund 3 in 1 LEF is ideal for subsequent coloured paint coats.
- System-matching primer for Orbit-Hybrid, Art Nobile and Art Velluto as well as for the ALLIGATOR interior paints in case of high demands to the surface
- Not suitable for subsequent render/plaster coatings and on pure lime plasters.

### Material description

<b>Binder</b>	Synthetic dispersion
<b>Ingredients</b>	Additives Pigments Fillers
<b>Density</b>	approx. 1.3 kg/l kg/l
<b>Maximum particle size</b>	Fine
<b>Average consumption (short text)</b>	approx. 100 - 130 ml/m <sup>2</sup>
<b>Average consumption</b>	It is 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.

## Multi-Grund 3 in 1 LEF

Gloss level	Matt
Storage	Cool, but protected from frost
Thinning	Water

### Substrates

#### Suitable substrates

- All usual mineral substrates (renders, concrete, masonry)
- Solid mineral and organic existing paint layers
- Wood and wood materials of all kinds
- NE-metals
- Fibre cement
- Slightly to medium absorbent substrates
- Smooth substrates like gypsum plasterboards, gypsum plaster
- Suitable for the application on dry, not entirely cured mineral renders and concrete

#### Substrate conditions

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).

#### Substrate conditions

##### Concrete

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.

##### Base renders (exterior):

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.

##### Aerated concrete - exterior

Use only diffusion capable coating materials for renovation coatings. With paints tinted in dark colours the lightness value must not fall below 30. If colours with a lightness value below 30 are determined, the coating must show a TSR-value of  $\geq 35$ . The guidelines of BFS Fact Sheet No. 11 apply.

##### Fibre-cement:

Products of fibre-cement have to be primed water based. On exterior surfaces solvent-based primers may be used as well. For constructions showing inaccessible and uncoated rear sides and edges do only use water vapour permeable coatings. Since 01.12.2012 uncoated fibre-cement panels containing asbestos must no longer be coated according to the Ordinance on Hazardous Substances (GefStoffV). For asbestos containing fibre-cement the corresponding directives (in Germany TRGS 519) referring to the handling with asbestos have to be observed.

##### Base renders (interior):

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 relative humidity also lengthen the setting process. Treat replastered locations with fluosilicate. In addition, the guidelines according to BFS Fact Sheet No. 10 apply.

##### Aerated concrete - interior:

In case of rooms of high humidity, external walls have to be additionally treated by a moisture guard, applied onto their insides. This can be effected applying a two-component coating like e.g. Hydropox. In addition the guidelines of BFS Fact Sheet No. 11 apply.

##### Derived timber products (chipboards, OSB-boards etc.) - interior

Have to be covered with a suitable gypsum board or gypsum fibre board as otherwise cracks may occur in the area of butt-joints.

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### Application

<b>Application method</b>	Application by brush, roller or spraying
<b>Spraying data</b>	Suitable airless systems with an output of at least 3 l/min. Airless: Spray pressure in bar: 160 - 190 / spraying angle: 50° / nozzle size in inch: 0.019 - 0.021 / filter: 60 mesh
<b>Application</b>	The material can be applied by brush, roller or spraying. With highly absorbent substrates it is recommended to pre-coat with a penetration primer. Critical substrates should be consolidated first with solvent-based products.
<b>Application hints</b>	Do not apply under a glaring sun, during strong wind or on warm substrates.  Non-absorbent substrates need to be ground first.
<b>Note</b>	<p>The figures given for parameters are average values. Due to the use of natural raw materials in our products, the actual value determined on the individual supplied product may differ slightly without affecting its suitability. These data refer to the white respectively standard product. Tinting may cause deviations.</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> <p>With Art Nobile gypsum containing substrates must always be primed with Multi-Grund 3 in 1. With partly coated surfaces, those parts are to be pre-primed with Multi-Grund 3 in 1 (which means two coatings in total). Otherwise a chemical reaction between the silicate binder and the gypsum might occur with the result of a discolouration.</p>
<b>Compatibility</b>	Do not mix with other products.
<b>Practical hints</b>	<p><b>New mineral Substrates</b> New mineral substrates may only be coated after setting and drying, not earlier than after 14 days, better after 4 weeks. In unfavourable drying conditions, the waiting period can be prolonged.</p> <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>
<b>Temperature limit</b>	Between + 5° C and + 30° C for substrate and ambient air during processing and drying.
<b>Drying time</b>	At + 20° C for substrate and ambient air and 65% relative humidity (RH), allow to dry for approx. 6 hours. Lower temperature or a higher humidity extend the drying time.
<b>Tool cleaning</b>	Immediately after use with water

### Information

<b>General information</b>	Keep out of reach from children. Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the paint. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow to enter drains, waterways or soil. Clean tools immediately with water and soap. Do not breathe vapour/spray.
<b>Hazard statements and safety advice</b>	Contains: 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.  Contains benzisothiazolone, mixture of: chloro-methyl-isothiazolinone and methylisothiazolone (3:1), methyl-isothiazolone. May produce an allergic reaction
<b>Declaration of ingredients</b>	Acrylate dispersion, titanium dioxide, siliceous fillers, water, additives, preservatives (benzisothiazolinone, methyl-isothiazolinone)
<b>Observe safety data sheets</b>	Further details: See Safety Material Data Sheet (MSDS)
<b>Category VOC</b>	EU limit value for the VOC contents of this product: (Category A/a) 30 g/l (2010). This product contains max.
<b>VOC content (in gram per litre)</b>	<1g/l
<b>WHC</b>	1 (weakly water-polluting)

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### 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.

### Container size

Content		EAN code	Article no.
12,5 L	Weiß	4002822031862	938053
2,5 L	Weiß	4002822031879	938054

### System specific and system completing products

Orbit-Hybrid

Phönix Matt LEF

Art Nobile

Art Velluto

Miropan-Innenfarbe 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 FARBERWERKE.