Hydropox

Water-thinnable 2-component coating for extremely stressed surfaces in the interior. Resistant to chemicals.

Product characteristics

Properties

- Ideal in combination with ALLFAtexx glass fabrics and nonwovens
- Resistant to disinfectants
- Decontaminable (test certificate)
- Resistant to chemicals
- High resistance to mechanical stress
- Tintable with the white product

Areas of application: Interior only

Suitable substrates in detail: Glass fabrics and extremely stressed wall areas in hospitals, laboratories, etc.

Material description

Binder	Epoxy resin
Density	1.1 kg/l
Water vapour permeability	1.1
Maximum particle size	Fine
Wet scrub class	1
Opacity class	2 at 5 - 6 m²/L
Average consumption (short text)	Approx. 150 - 180 g/m²
Average consumption	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.
Colour shade	White Tintable with the standard product
Suitable tinting paints	Can be tinted via the ALLFAcolor tinting machines. Please note that with tinted products the specified properties may change. Commercially available tinting concentrates. Please note that with tinted products the specified properties may change.
Gloss level	Satin-gloss according to EN 13300
Storage	Cool, but protected from frost
Thinning	This product is ready for use.

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Substrates

Suitable substrates

- All usual mineral substrates (renders/plasters, concrete, masonry)
- Gypsum wallboards and gypsum plasterboards
- Gypsum plaster
- Hardboards
- Precast building materials
- Adherent existing paint layers
- Wood-chip wallpaper
- Glass fabrics

Substrate conditions

The substrate must be clean, dry, firm and sound. Follow the building regulations (in Germany VOB, Part C, DIN 18363, Section 3). Inside renovation coatings can normally be carried out without a special priming coat. For new coatings the surface has to be first attended with an appropriate primer of the ALLIGATOR – product range, following the technical specifications.

Substrate conditions

Gypsum blocks
Adjust the primer to absorbency. With coatings destined to bridge capillary cracks, reinforce completely using a fleece. In addition the guidelines of BFS-Fact Sheet No. 17 apply.

Gypsum building boards (interior)
Adjust the primer to absorbency. With coatings destined to bridge capillary cracks, reinforce the entire surface using a fleece. In addition the guidelines of BSF Fact Sheet No. 12 apply. Ingredients which might penetrate have to be isolated before following coatings.

Gypsum plaster, gypsum sand plasters etc.
Remove any sintered layers. For first coatings take care of a sufficient penetration of the primer (e. g. by using a penetrating primer). Additionally the guidelines of BFS Fact Sheet No. 10 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.

Aerated concrete - interor:
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.

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.

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 for exterior coatings and the guidelines according to BFS Fact Sheet No. 8 for interior coatings.

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.

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Application

Application method

Application by brush, roller or spraying

Spraying data

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

Coating system

Initial coatings
Priming coat with Tiefgrund LEF, Tiefgrund W or Grundierfarbe WP.
ntermediate and **finishing coats** unthinned.

Recoatings
Intermediate and **finishing coats** unthinned

Initial coating on glass fabrics
Filling coat with Presto Weiß LEF
Intermediate and **finishing coats** unthinned.

Due to the great varieties of our range and specific applications it is also possible to use other primers or coating systems. For this please contact our technical service.

Application

Mix Hydropox and hardener in a weight ratio of 3:2. Add the hardener to the base compound. Mix intensely using a slow-running stirrer (max. 400 u/min) until a homogeneous and smear-free colour is achieved. Pour into a separate container and stir again thoroughly. Then apply the mixture twice, generously and evenly by brush, roller or spraying. Working time (pot-life) is about 90 minutes at + 20° C. Do not thin subsequently. If to be applied on new surfaces coated with glass fabrics, these surfaces must be coated with a slightly filling high-quality paint (e.g. Presto Weiß LEF) without voids or nests. If necessary level the seam areas by sanding and remove sanding dust.

Application hints

The end of the pot-life is not visible. Exceeding the limit results in deviations of gloss level and colour as well as to a reduced stability and loss of adhesion to the substrate.

The subsequent coatings must be applied within 3 days, otherwise an intermediate roughening (sanding) is necessary.

In case of increased load two paint layers might be necessary.

Note

Check tinted paint for colour accuracy prior to the application. Objections regarding the colour shade cannot be accepted after the application.

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 date refer to the white respectively standard product. Tinting may cause deviations.

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.

Discolouration and chalking effects may occur with weathering and UV light exposure. The pigmentation in, e.g. coffee, red wine or leaves (organic dyestuffs) and various chemicals, e.g. disinfectants, acids, etc., may cause discolouration. Scratch-marks may appear on the surface due to continued rubbing/mechanical stress. The functional capability of the coating will not be affected by these changes. Slightly pigment abrasion may occur on the surface in case of intensive or dark shades.

Compatibility

Do not mix with other products.

Practical hints

Masking Works
On completion of the coating, particularly with glossy dispersion paints and / or higher layer thicknesses, immediately remove adhesive tapes, in order to avoid untidy contours.

Repairs
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.

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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.

New mineral Substrates
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.

Non-combustibility
According to DIN 4102 (in Germany) the construction material class A (non-combustibility) is retained with usual mineral substrates such like renders/plasters, concrete and also gypsum plasterboard with enclosed surface, even if their surfaces are coated with dispersion based paints. For usability certificate as non-combustible system for interiors with ALLFAtexx glass fibres and fleeces refer to the general construction supervision test report.

Hairline Crack bridging Coatings on Gypsum Plasterboard
In correspondance with the building regulations (in Germany VOB/C DIN 18363, Section 3.2.1.2) hairline crack bridging coatings on gypsum plasterboards and gypsum fibreboards can only be realized by the additional embedding of a fleece.

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.

Temperature limit	Between + 10 °C and + 30 °C for all air and substrate conditions during application drying. Relative humidity must not exceed 80 %. Substrate temperate should always be min. 3° C above the dew point temperature.
Drying time	At + 20° C for substrate and ambient air and 65% relative humidity (RH), dust-dry after approx. 3 hours. Recoatable after approx. 24 hours. Lower temperature or a higher humidty extend the drying time.
Tool cleaning	Immediately after use with water and soap

Information

Product code	RE0
General information	**Hardener:** Do not get in eyes, on skin, or on clothing. Avoid release to the environment. Use personal protective equipment as required. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water.
Hazard statements and safety advice	**Hardener:** Contains 4,4' isopropylidenediphenol. Contains expoy compounds. May produce an allergetic reaction. **Mass:** Causes serious eye damage. Toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IFf in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Contains: m-phenylenebis(methylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine. May produce an allergic reaction.
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/j) 140 g/l (2010). This product contains max.
VOC content (in gram per litre)	< 40 g/l
WHC	2 (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.
10 KG	Weiß	4002822161408	008862

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.

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