Acqua Primer

Two-component, water-based epoxy primer, of ultra-low VOC emissions

Description

Two-component, water-based epoxy primer, of ultra-low VOC emissions. Classified as SR-B2,0 according to EN 13813.

Qualified for use in **LEED** projects globally, by showing compliance with the specifications for VOC content *(<1g/l*) and VOC emissions, achieving the highest classification in terms of TVOC emissions *(<0,5mg/m³*).

Classified in the highest emission class **A+** with respect to VOC emissions in interior areas.

Packing

Set (A+B) of 14kg, 7kg and 0,7kg

Fields of application

- Floors and walls which will be covered with resinous systems or coatings (**Epoxol®**, **Neopox®**, **Neodur®**)
- Floors, walls and joints prior to sealing them with epoxy repairing materials **Epoxol® Putty** and **Epoxol® Liquid** for adhesion improvement
- As an anti-dust sealer on old or new cement-based surfaces which require stabilization

Properties - Advantages

- May be applied on substrates with increased moisture content (e.g. cementitious substrates with humidity up to 8%, without rising moisture)
- Excellent adhesion on various construction surfaces, e.g., concrete, plaster, gypsum boards, etc.
- Practically zero content in volatile organic compounds (*Zero-VOC*), combined with ultra-low VOC emissions
- Contributes to the optimization of indoor air quality: **A+** acc. to the French legislation requirements
- Complies with the strict VOC requirements for sustainable buildings, according to **LEED** guidelines
- Presents high hardness and very good abrasion and chemical resistance
- Ideal for stabilization and sealing of cementitious and various others porous substrates, preventing dust generation

Certificates – Test reports

- CE Certification according to EN 13813
  Classified as SR-B2,0
- Qualified for use in LEED projects globally, by showing compliance with the specifications for VOC emissions and VOC content, as attested by the external independent specialized laboratory of Eurofins - Fulfils the requirement LEED v4 & v4.1 (beta): EQ Credit - Low-Emitting Materials, achieving the highest classification in terms of TVOC emissions *(<0,5mg/m³)*, combined with VOC content <1g/l
  - *Attestation LEED v4 and v4.1 (beta): EQ Credit - Low-Emitting Materials*
  - *VOC Emission Test report No. 392-2023-00256103 – Regulation: CDPH (California Department of Public Health) v.1.2-2017*
  - *VOC Content Test report No. 392-2023-00256103 – Regulation: SCAQMD (South Coast Air Quality Management District) Rule 1113 (2016)*
- Certification of compliance with the French regulation regarding indoor VOC emissions - Classified in the highest emission class A+
  - *Attestation French VOC Regulation: VOC emission class A+*
  - *VOC Emission Test report No. 392-2023-00256103 – French VOC Regulation: Decree of March 2011 and Arrête of April 2011 and French CMR components: Regulation of April and May 2009*
- Certified for its performance in terms of reaction to fire as part of the coating system **Neopox® W Plus** acc. to EN 13501-1
  *System classification **B_{fl}-s1** based on classification report No. 1608\DC\REA\23_3 acc. to EN 13501-1 and individual test reports acc. to EN ISO 9239-1 and EN ISO 11925-2 (No. 1608\DC\REA\23_1 & 2) by the independent accredited laboratory CSI S.p.A.*
- Test report by the external independent quality control laboratory Geoterra (No. 2020/280_1)
- Complies with the V.O.C. content requirements acc. to the E.U. Directive 2004/42/CE

Technical characteristics	
Mixing ratio A:B (by weight)	100:40
Density (EN ISO 2811-1)	1,05kg/L (±0,05)
Adhesion strength (EN 13892-8)	≥3N/mm²
Consumption: 120-160gr/m² for one layer (depending on the absorptivity of the substrate)	

Application conditions	
Substrate moisture content	<8%
Relative air humidity (RH)	<70%
Application temperature (ambient - substrate)	+12°C min. / +35°C max.

Curing details	
Pot life (+25°C, RH 50%)	1 hour
Drying time (+25°C, RH 50%)	6 hours
Dry to recoat - overcoat (+25°C, RH 50%)	24 hours
Full hardening	~7 days
** Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them*	

Instructions for use

Substrate preparation

Concrete – Cement screed

The concrete must be min. Grade C20/25, with a tensile strength of ≥1,5MPa, and allowed to cure for at least 28 days, taking all the necessary maintenance measures during its curing period. The cementitious substrate must be properly prepared mechanically (e.g. grinding, shot blasting, milling etc.) to smooth out the irregularities, achieve an open-textured surface and ensure optimum adhesion.

The surface must be sufficiently dry and protected from rising moisture, stable, clean and free of dust, grease, oil, etc. Loose friable material must be fully removed by brushing or sanding with a suitable machine and a high suction vacuum cleaner.

The surface must be as smooth and flat as possible, as well as continuous (ie without voids, cracks etc.)

Application

The two components A & B are mixed in the predetermined ratio and after the addition 10-15% w/w of clean water, they are stirred for app. 2-3 minutes with a low-speed electric stirrer, until the mixtures becomes homogenous. The surface is then covered in one layer by roller, brush, or airless spray. In case of increased substrate porosity, an additional layer may be required.

Special notes

- **Acqua Primer** should not be applied under wet conditions, or if wet conditions are expected to prevail during the application or the curing period of the product.
- The components should not have been stored at very low or very high temperatures, especially before mixing. Mixing and stirring of the mixture should be preferably done in the shade. The stirring of the mixture must be done mechanically and not manually with a rod, etc.
- Excessive stirring of the material should be avoided, in order to mitigate the risk of air entrapment. After stirring the mixture, it is recommended to apply the material shortly in order to avoid the development of high temperatures and potential hardening inside the can

- The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish
- Due to the nature of the material, the direct and permanent exposure of the final coating to UV radiation may cause the phenomenon of chalking over time
- In case that an extended period of time (>36 hours) has passed between successive layers, it is recommended to lightly sand the surface of the previous layer, in order to avoid possible adhesion problems of the next layer

Appearance	Transparent, yellowish
Packing	Set (A+B) of 14kg, 7kg and 0,7kg in plastic pails
Cleaning of tools – Stains removal	By water immediately after the application. In case of hardened stains, by mechanical means only.
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AjWB: 140g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <140g/l
UFI code	*Component A*: 5JG0-V068-A00Q-JV7S *Component B*: G800-S0AK-T00N-T3H9
Storage stability	2 years, if kept in the original sealed packaging, protected from frost, humidity and exposure to solar radiation.

CE

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DoP No.: 4950-64

EN 13813 SR-B2,0

Acqua Primer
Synthetic resin primer

Release of corrosive substances	SR
Wear resistance	NPD
Bond strength	B2,0
Impact resistance	NPD
Reaction to fire	NPD

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