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Wasserlac Al Quarzo

HIGHLY WASHABLE ACRYLIC QUARTZ PAINT FOR EXTERIOR USE



EN 1062-1 classification:
G₃ E₃ S₂ V₃ W₂ A₀ C₀

SERIES 430

WASSERLAC AL QUARZO - V.2024-11-06

DESCRIPTION

WASSERLAC AL QUARZO is an emulsion paint for exterior use, featuring excellent outdoor resistance and resistance against pollutants, as well as good permeability.

The acrylic resin making up the product gives it an extremely high resistance against washing and the alkaline environment typical of cement-based surfaces and plastering in general.

the pigments and the quartz flour contained in the product make it particularly suitable for assuring good filling and levelling power on the surface.

Once applied, the WASSERLAC AL QUARZO film has a mat and slightly coarse or slightly textured look.

The painting system made up of WASSERLAC AL QUARZO, according to the Kunzle theory, proves to act as a preservative for buildings since it has a capillary water absorption W of less than $0.5 \text{ kg/m}^2\text{h}^{0.5}$ and a vapour diffusion resistance S_d of less than 2 m .

TECHNICAL SPECIFICATIONS

- Type of Binder: acrylic copolymer in aqueous dispersion

- Classification per UNI EN 1062-1: (paints for exterior)

.Gloss per EN ISO 2813: class G₃ (<10 matt)

.Dry film thickness per ISO 3233: class E₃ (100-200 μm)

.Grain size per EN ISO 787-18: class S₂ (<300 μm medium)

.Water vapour transmission rate per UNI EN ISO 7783-2: class V₃ ($S_d > 1,4 \text{ m}$ low)

.Liquid water permeability per UNI EN 1062-3: class W₂ (0,1-0,5 medium)

.Crack-bridging per UNI EN 1062-7A: class A₀ (no requirement)

.CO₂ permeability per UNI EN 1062-6: class C₀ (no requirement)

Other characteristics

- Specific gravity per UNI EN ISO 2811-1: 1,4-1,6 kg/l

- Viscosity per UNI 8902: 60000 ± 2400 cps at 30 °C (Brookfield viscometer)
- Maximum quartz granulometry: 100 µm
- Wet-scrub resistance per UNI 10560: >10000 cycles, excellent
- Alkali resistance per UNI 10795: alkaliproof
- Drying time (at 25 °C and 65% R.H.): to touch in 30 min; to recoat after 4 hours.

INSTRUCTIONS FOR USE

May be applied on:

- New and old plasters based on hydraulic binders.
- Concrete surfaces.
- Old paints and wall coatings that are organic or mineral in nature, dry, compact, absorbent and cohesive.
- Mineral conglomerates of various kinds, as long as they are absorbent.

Surfaces should be adequately prepared by following the instructions given in the paragraph 'PREPARING THE SURFACE'.

Do not apply on freshly painted surfaces.

PREPARING THE SURFACE

- Make sure that the surface is thoroughly dried and aged. Resurface or consolidate using specific products if necessary.
- If mold is present, treat the surface with COMBAT 222 cleanser code 4810222, and with COMBAT 333 reconstruction code 4810333. To protect the masonry from the formation of mold, add the sanitizer COMBAT 111 code 4810111 to the product.
- Brush or wash to remove any efflorescence and any old peeling paint. Completely eliminate any raised layers of lime-based or tempera paints.
- Remove any dust, smog or other deposits by brushing.

Plaster surfaces:

- Cracks must be adequately widened and filled with stucco or similar products.
- Level any irregularities in the surface. Treat any holes, cracks, crevices and gaps with BETOMARC FIT 9740150, RASAMIX FIT 9670160, MARCOPRO 975 according to the type of support.
- Make sure that the support is completely dry and apply a coat of ISOMARC 4410111 solvent-based wall fixative or micronized solvent-free fixative ATOMO 8840001.
- Apply WASSERLAC AL QUARZO as described in the application instructions.

Concrete surfaces:

- Remove any crumbling structural cement.
 - The metal reinforcement disks visible on the surface must be carefully brushed and treated with BETOXAN PRIMER 9490125 passivating agent.
 - Restore the missing parts with the smoothing coats BETOXAN 400 or BETOXAN 300 Non-shrinking thixotropic fiber-reinforced mortar 9490140/130; perform the final smoothing with BETOXAN 100 / BETOXAN 200.
 - Make sure that the support is completely dry and apply a coat of ISOMARC 4410111 solvent-based wall fixative or micronized solvent-free fixative ATOMO 8840001.
 - Apply WASSERLAC AL QUARZO as described in the application instructions.
- *(The dilution of the fixative and amounts to be applied depend on the absorption of the support surface, and must be determined through preliminary tests on the specific support surface - See the relevant technical data sheet).

APPLICATION INSTRUCTIONS

- Air and support surface conditions:

Air temperature: Min. +8 °C / Max. +35 °C

Relative environmental humidity: <75%

Support surface temperature: Min. +5 °C / Max. +35 °C

Moisture level of the support surface: <10%

Avoid applying when surface condensation is present, or in direct sunlight.

- To avoid compromising the optimal appearance and performance of the product, we recommend that it be applied only in the aforementioned climate conditions, and that the surfaces be protected from rain and damp for approximately 48 hours. This will allow the product to dry completely and ensure even polymerization, which takes place in approximately 10 days.

- Surfaces bathed by rainwater during the approximately 10 days, could show translucent vertical lines. Such an occurrence does not compromise the product's performance, and may be removed by high-pressure water cleansing or after subsequent rainfalls.

- Application on surfaces with salt efflorescence or subject to rising damp may interfere with the product's adherence to the support. It is therefore necessary to first reconstruct the masonry using dehumidifying plasters, then paint with the NEPTUNUS/SCUDOSIL siloxanic system.

- Tools: brush or wool-roller.

- N. coats: at least 2 coats.

- Diluting: with water

. by brush 30-35% first coat, 20% subsequent coats;

. by wool-roller 15-20%.

- Application by airless spraying is not recommended owing to the abrasive action of the siliceous extenders in the product.

- Indicative spreading rate: 4-5 sq m/l with smooth finish; 3-4 sq m/l with slightly textured finish based on 2 coats smooth surfaces featuring average absorption. It is advisable to determine the actual spreading rate by carrying out a preliminary test on the specific surface.

TINTING

Colors are obtainable via the color matching system and using COLORADO series 548 colorants.

When using multiple batches it is recommended to remix the various products together to avoid slight differences in shading.

For outdoor tasks it is a good rule of thumb to always use material from the same batch, from corner to corner. For tasks where it is unavoidable to continue on a wall with a different batch, do not place the batches contiguously. For the transition point, use any interruptions in the continuity of the surface: moldings, corners, cables, etc.

STORAGE

Maximum temperature for storage stability: +30 °C

Minimum temperature for storage stability: +5 °C

The product should be preferably used within 2 years from date of manufacture when stored in original unopened containers and in appropriate temperature conditions.

SAFETY RULES

Limit value EU (Dir. 2004/42/EC)

Cat. A/c: coatings for exterior walls of mineral substrate (water-base): 40 g/l (2010)

The product contains max: 40 g/l VOC

Use the product according to current standards of hygiene and safety; after use do not litter containers, allow the residue to dry and treat them as special waste.

For more information see the safety data sheet.

SPECIFICATION ITEM

Highly washable acrylic quartz paint

Applications by brush or roller, on prepared surfaces, of WASSERLAC AL QUARZO series 430, water-based acrylic copolymers, mineral extenders and ventilated quartz with a maximum granulometry equivalent to 0.1 mm; excellent wet scrub resistance per UNI 10560, medium water permeability per UNI EN 1062-3 and low water vapour permeability per UNI EN ISO 7783-2, with at least two coats, of a quantity determined by the absorption of the surface

Supply and application of the material € per sq m.