

# ACRISYL KP 1

1 mm ACRYLIC-SILOXANIC ANTI-MOULD ANTI-ALGAE TEXTURED WALL COATING

series 631

## DESCRIPTION

ACRISYL KP 1 is an outdoor wall coating with an acrylic-siloxane binder base, excellent resistance to water and permeability to vapour, with a compact finish. It creates a rough layer resistant to the aggressive action of weathering.

Its curved granules give it a filling and masking power that smoothes out any irregularities on the surface. Produces an effect very similar to that of mineral plasters. ACRISYL KP 1 is especially suitable for restoration works.

## INSTRUCTIONS FOR USE

May be applied on:

- External Thermal Insulation Composite Systems (ETICS).
- 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.

## TECHNICAL SPECIFICATIONS

- Type of Binder: acrylic copolymer modified with siloxane in aqueous dispersion
- Pigments and extenders: quartz powder and marble granules
- Solvent: water
- Viscosity: pasty consistency
- Grain size: 1 mm
- Alkali resistance UNI 10795: alkaliproof
- CE marking per EN 15824
- Classification of reaction to fire EN13501-1: Class A2 s1 d0

Referred to a consumption not exceeding that indicated, and to an application on a non-combustible surface.

- Water permeability per UNI EN 1062-3: low,  $w < 0,1 \text{ kg/m}^2\text{h}^{0,5}$
- Water vapor permeability per UNI EN ISO 7783-2: high,  $S_d < 0,14 \text{ m}$
- Masonry preservative in conformity with the Kuenzle theory per DIN 18550:  $W < 0,5 \text{ kg/m}^2\text{h}^{0,5}$  and  $S_d < 2 \text{ meters}$
- Mould and algae resistant per UNI EN 15457 and UNI EN 15458
- Drying (at 25°C and 65% R.H.): from 1 hour and 30' to 3 hours, depending on the thickness applied.

## PREPARING THE SURFACE

- Check the preservation status. The surface must be smooth. If not, resurface or consolidate using specific products.
- If mold is present, first treat the surface with COMBAT 222 cleanser 480222 and with COMBAT 333 reconstruction 4810333. - Make sure that the surface is thoroughly dried and apply:

- Remove any efflorescence present by brushing or washing.

- If old paint is present, remove any peeling parts that are not completely adhered, while raised layers of lime-based or tempera paints must be completely removed by thoroughly wetting the surface and scraping, or using a high-pressure water jet machine.

- 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 9450150, RASAMIX 9440160, or RASOMARC 9500150 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. On compact surfaces, not chalking, apply water soluble covering fixative MARCOTHERM PRIMER 4740019.

- Apply ACRISYL KP 1 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 200 Non-shrinking anti-carbonation smoothing coat 9490120.

- 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. On compact surfaces, not chalking, apply water soluble covering fixative MARCOTHERM PRIMER 4740019.

- Apply ACRISYL KP 1 as described in the application instructions.

Surfaces with External Thermal Insulation Composite Systems.

- Make sure that the support has a maturation time that meets the manufacturers' specifications.

- Check the consistency of the smoothing coats; the surface must be smooth.

- Apply a coat of IDROFIS 4700006 acrylic water-based wall fixative, or ATOMO 8840001 micronized solvent-free fixative, or MARCOTHERM PRIMER 4740019 diluted with water according to the absorption of the surface.

- Apply ACRISYL KP 1 as described in the application instructions.

## 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%

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- 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 NEPTUNUS siloxanic system.
- The protection of anti-mold and anti-algae finishes is of sacrificial nature: the efficacy and durability are strongly influenced by the severity of the environmental and climatic exposure, the building category, and the application system selected.
- Tools: plastic or steel trowel.
- Dilution: ready to use. The viscosity of the product can be adjusted by adding a maximum 1% of water.
- Mix the product before applying.
- Nr coats: 1. Spread the product evenly over the support surface with the plastic trowel and even it out before it begins to form a surface film.
- Clean tools with water immediately after use.
- Indicative covering capacity: 1.5 – 1.7 kg/m<sup>2</sup> on surfaces with average porosity. We recommend performing a field test on the specific support surface to determine yield.

## TINTING

Colors are obtainable via the Marcromie 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 storage temperature: +30°C  
Minimum storage temperature: +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): 75 g/l (2007) / 40 g/l (2010)  
ACRISYL KP 1 Contains max: 40 g/l VOC

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. / Keep out of the reach of children.  
Do not empty into drains. / Wear suitable protective clothing and gloves. / If swallowed, seek medical advice immediately and show container or label.  
The product must be transported, used and stored in accordance with the standards in force regarding hygiene and safety; let the residues dry out completely and treat them as special waste. Consult the safety sheet for additional information.

## SPECIFICATION ITEM

Compact effect acrylic-siloxane wall coating.  
On already prepared surfaces, apply ACRISYL KP 1 Series 631, based on acrylic-siloxane copolymer in aqueous dispersion, selected marble chips with an average grain size of 1 mm.  
Supply and installation of the material € ..... per sq.m.

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