

ELASTOMARC FINITURA

ANTI-ALGAE ELASTOMERIC ACRYLIC EMULSION PAINT - ELASTOMARC SYSTEM

Series 417

DESCRIPTION

The light hardening polymer based ELASTOMARC system is specific for the repair facades when high crack bridging is required, including at low temperatures.

The performance of the ELASTOMARC system has been tested in line with the UNI EN 1062-7 standard (Determination of crack bridging properties).

It can be used to treat microshrinkages and cracks caused by vibration of the structure or expansion due to different thermal coefficients of materials. It can also be used on wide cracks including those affecting wall structures, with a maximum breadth of 2000 µm. Operations due to structural failure which cannot be repaired with coating systems because of the cause and nature of the structural failure, are excluded.

The system is made up of ELASTOMARC FONDO (code 4150570) and anti-algae ELASTOMARC FINITURA (417 line).

The crack bridging of the elastomeric system is directly proportional to the thickness realized.

ELASTOMARC FONDO must always be covered with ELASTOMARC FINITURA.

Thanks to its light hardening property, by reacting with UV rays the ELASTOMARC system increases the surface hardness of the film without altering its elasticity, creating low dirt retention.

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.
- Specific for operations on vertical walling when there are shrinkages and dynamic cracks.

TECHNICAL SPECIFICATIONS

ELASTOMARC FONDO (cod. 4150570):

- Type of Binder: acrylic elastomeric copolymer in water emulsion
- Solvent. water
- Specific gravity per UNI EN ISO 2811-1: 1,38 ± 0,05 kg/l
- Viscosity per UNI 8902: 100000 ± 8000 cps at 30 °C (Brookfield rotational viscometer).
- Drying time (at 25 °C and 65% R.H.): to touch in 1 hour; to recoat after 16-24 hours.
- Percentage elongation to crack at 23 °C: >600%

ELASTOMARC FINITURA (series 417):

- Type of Binder: acrylic elastomeric copolymer in water emulsion
- Solvent. water
- Specific gravity per UNI EN ISO 2811-1: 1,40 – 1,65 kg/l (depending on color)
- Viscosity per UNI 8902: 48000 ± 4000 cps at 25 °C (Brookfield rotational viscometer).
- Medium marble grain size: 125 µm

- Mould and algae resistant per UNI EN 15457 and UNI EN 15458

- Drying time (at 25 °C and 65% R.H.): to touch in 45 minutes; to recoat after 8 hours.

Performance of the ELASTOMARC system observed in accordance with the EN 1062-1 standard

-Gloss per EN ISO 2813: class G₃ (<10, matt) for ELASTOMARC FINITURA

-Dry film thickness per ISO 3233: variable, depending on the operation system

-Grain size per EN ISO 787-18: class S₂ (<300 µm, medium) for ELASTOMARC FINITURA

-Water vapour transmission rate per UNI EN ISO 7783-2: class V₂ (0,14≤Sd<1,4 m, medium) Sd=0,7 meters for operation system class A4

-Liquid water permeability per UNI EN 1062-3: class W₂ (0,1-Crack-bridging per UNI EN 1062-7A: depending on the operation

Elastomarc A system: class A2

Elastomarc B system: class A3

Elastomarc C system: class A4

Elastomarc D system: class A5 mod < 2000 µm

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

Performance of the ELASTOMARC system observed in accordance with the EN 1062-7 standard

Test carried out starting from a closed crack = 0mm, observing the crack point of the film.

Elastomarc A system: crack bridging of the film 0.65 mm

Elastomarc B system: crack bridging of the film 0.85 mm

Elastomarc C system: crack bridging of the film 1.35 mm

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.

- 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.

- Level any irregularities in the surface with BETOMARC 9450150 or RASAMIX 9440160.

- Make sure that the support is completely dry and prime with ISOMARC 4410111 solvent-based wall fixative or micronized solvent-free fixative ATOMO 8840001.

- The cracks should be filled and smoothed out with ELASTOMARC STUCCO code 41600189; for proper use please see the related technical information 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%

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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.

- 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.

- When the product is applied in medium-saturated tinting, pay attention to lay off, to avoid lightly shading on overlap and rollers.

- Tools should be cleaned immediately after use with water.
- Even after some time, over-coating must be carried out with elastic systems only; the application of other products can cause cracking and detachment.

-No. of coats. Depending on the type of operation to be carried out, according to what is shown in the classification below.

Application of further coats of ELASTOMARC FINITURA related to the quantity foreseen in the class relative to the operation will not impair the bridging.

ELASTOMARC FONDO

- Tools: brush (for smooth finish), sponge roller or (for textured finish)

- Diluting: ready to use or at 5% max with water.

ELASTOMARC FINITURA

- Tools: brush, short-bristle roller or sponge roller

- Diluting with water: ready to use or by brush at 10-20%, by roller at 10% max.

Elastomarc A system

For shrinkages subjected to low dynamic stress with a maximum breadth of 250 µm (0.25 mm)

In this situation one or more coats of the ELASTOMARC FONDO product should be applied, with a total consumption of 3-3.5 m²/l.

With this consumption, a 15 l pack will cover up to 50 m².

The surfaces should be finished with ELASTOMARC FINITURA with a total consumption of 8.5-9 m²/l in one or more coats. With this consumption, a 15 l pack will cover up to 130 m².

Elastomarc B system

For cracks subjected to medium dynamic stress, with breadth in excess of 250 µm and under 500 µm (0.5 mm), as may often be observed on walls at or close to openings such as windows and similar.

In this situation one or more coats of the ELASTOMARC FONDO product should be applied with a total consumption

of 3 m²/l. With this consumption, a 15 l pack will cover up to 45 m².

The surfaces should be finished with ELASTOMARC FINITURA with a total consumption of 5-6 m²/l in one or more coats. With this consumption, a 15 l pack will cover up to 80 m².

Elastomarc C system

For cracks subjected to high dynamic stress, as can often be observed close to loft rings. With breadth in excess of 500 µm and under 1250 µm (1.250 mm)

In this situation one or more coats of the ELASTOMARC FONDO product should be applied with a total consumption of 1.5-2 m²/l. With this consumption, a 15 l pack will cover up to 25 m².

The surfaces should be finished with ELASTOMARC FINITURA with a total consumption of 5-6 m²/l in one or more coats. With this consumption, a 15 l pack will cover up to 80 m².

Elastomarc D system

For localized operations on large, deep cracks of up to 2000 µm (2 mm) at the maximum including those which can affect the wall structure.

In such cases it is indispensable to widen the crack and fix the stripped surface with ISOMARC code 4410111 solvent-based sealant or ATOMO 8840001 solvent free micronized fixative.

The cracks should be filled using ELASTOMARC STUCCO and care should be taken to drown (with the aid of a spatula) a retaining grid in fiberglass with mesh width 2.7x2.7 mm, of the Gavazzi 0059-A type.

For further information please see the ELASTOMARC STUCCO technical information sheet.

In this situation one or more coats of the ELASTOMARC FONDO product should be applied with a total consumption 1.5-2 m²/l. With this consumption, a 15 l pack will cover up to 25 m².

The surfaces should be finished with ELASTOMARC FINITURA with a total consumption of 5-6 m²/l in one or more coats. With this consumption, a 15 l pack will cover up to 80 m².

TINTING

ELASTOMARC FONDO and ELASTOMARC FINITURA can be colored via the Marcromie color matching system (in light shades only). Tinted coatings with a reflection index greater than 20 are recommended. This value is reported in the table at the beginning of the "esterni in tinta" colour guide.

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

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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

EU limit value (Dir. 2004/42/EC)
Cat. A/c: Coatings for exterior walls of mineral substrate (water-base): 40 g/l (2010)
ELASTOMARC FONDO Contains: 40 g/l VOC
ELASTOMARC FINITURA Contains: 40 g/l VOC

The product does not require dangerous labelling. Use the product according to current health and safety regulations; after use, do not discard the containers in the environment; allow the residue to dry thoroughly, then treat as special waste. Store out of the reach of children. Do not dispose of residues in the sewers, waterways or ground. For more information consult the safety data sheet.

SPECIFICATION ITEM

Anti-algae, filling and light hardening elastomeric coating. Application on pre-prepared surfaces of the ELASTOMARC elastomeric system, tested in line with the UNI EN 1062-7 standard.

The Elastomarc system is made up of primer and finish based on an elastomer acrylic copolymer in aqueous dispersion.

It is specific for the protection of surfaces with shrinkages according to a specific operation system:

- Elastomarc A system

For shrinkages subjected to low dynamic stress with a maximum breadth of 250 µm (0.25 mm)
ELASTOMARC FONDO with a total consumption of 3-3.5 m²/l in one or more coats.
ELASTOMARC FINITURA with a total consumption of 8.5-9 m²/l in one or more coats.

- Elastomarc B system

For cracks subjected to medium dynamic stress, with a breadth in excess of 250 µm and under 500 µm (0.5mm)
ELASTOMARC FONDO with a total consumption of 3 m²/l in one or more coats.
ELASTOMARC FINITURA with a total consumption of 5-6 m²/l in one or more coats.

- Elastomarc C system

For cracks subjected to high dynamic stress, with a breadth in excess of 500 µm and under 1250 µm (1.250 mm)
ELASTOMARC FONDO with a total consumption of 1.5-2 m²/l in one or more coats.
ELASTOMARC FINITURA with a total consumption of 5-6 m²/l in one or more coats.

- Elastomarc D system

For localized operations on large, deep cracks of up to 2000 µm (2 mm) at the maximum

ELASTOMARC STUCCO care should be taken to drown a retaining grid in fibreglass, with mesh width 2.7x2.7 mm. ELASTOMARC FONDO with a total consumption of 1.5-2 m²/l.

ELASTOMARC FINITURA with a total consumption of 5-6 m²/l in one or more coats.

Supply and application of the material € per m².

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