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# Marcosil Pittura Riempitiva

SILICATE-BASED FILLER FOR OUTDOOR USE



SERIES 933

MARCOSIL PITTURA RIEMPITIVA - V.2024-09-24

## DESCRIPTION

MARCOSIL RIEMPITIVO is a mineral-based paint containing modified potassium silicate formulated to protect and decorate outdoor wall surfaces.

The inorganic binder in MARCOSIL RIEMPITIVO chemically reacts with mineral bases in a process referred to as "silicatisation" to guarantee proper adhesion to the base.

MARCOSIL RIEMPITIVO provides high filling and masking power. It also gives the base an excellent ability to breathe, and special water repellent substances present in the product repel water and prevent it from being absorbed.

MARCOSIL RIEMPITIVO is particularly well suited to protection of old plaster and restoration of old buildings, as it produces a pleasant appearance rich in soft shadows.

MARCOSIL RIEMPITIVO complies with DIN 18363 specifications.

## INSTRUCTIONS FOR USE

May be applied on:

- New and old plasters based on hydraulic binders.
- Old paints and wall coatings that are mineral in nature, dry, compact, absorbent and cohesive.
- Mineral conglomerates of various kinds, as long as they are absorbent.
- May not be applied on gypsum or gypsumboard and old paints and coatings that are organic in nature.
- Not recommended for use on concrete surfaces as the product is highly permeable and offers no protection against the attacks of carbon dioxide, the principal cause of concrete decay.

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: organic stabilized potassium silicate in aqueous solution.
- The product conforms to DIN 18363 since its organic binder: <5%.

- Classification per UNI EN 1062-1: (paints for exterior)
- .Gloss per EN ISO 2813: class G<sub>3</sub> (<10 matt)
- .Dry film thickness per ISO 3233: class E<sub>3</sub> (100-200 µm)
- .Grain size per EN ISO 1524: class S<sub>2</sub> (<300 µm medium)
- .Water vapour transmission rate per UNI EN ISO 7783-2: class V<sub>1</sub> (Sd<0,14 m high) Sd<0,1 m
- .Liquid water permeability per UNI EN 1062-3: class W<sub>2</sub> (0,1-0,5 medium)
- .Crack-bridging per UNI EN 1062-7A: class A<sub>0</sub> (no requirement)
- .CO<sub>2</sub> permeability per UNI EN 1062-6: class C<sub>0</sub> (no requirement)

#### Other characteristics

- Specific gravity per UNI EN ISO 2811-1: 1,50±0,02 kg/l
  - Maximum filler grain size: 125 µm
  - 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.- Drying time (at 25 °C and 65% R.H.): to touch in 1 hour; complete after 16 hours.

## PREPARING THE SURFACE

#### Plaster surfaces:

- Make sure the base has a maturation time of at least 28 days.
- Check condition of preservation. Surface must be consistent; if this is not the case, reconstruct the surface or consolidate it with specific products.
- Remove any efflorescence by brushing or washing it away.
- Level off irregularities in the base with BETOMARC 9450150 or RASAMIX 9440160 or RASOMARC 9500150 according to the type of support.
- Brush off dust, smog and other deposits by brushing.
- Make sure that the surface is thoroughly dry, then apply:  
A layer of MARCOSIL PRIMER code 075003 diluted by about 100% with water only on any portions of the base covered with plaster. Must be thinned according to the degree of absorption of the base; if the base is very powdery, decreasing dilution and, if necessary, apply 2 coats of insulation.
- Do not apply MARCOSIL PRIMER to surfaces with organic (synthetic) water-based paints.
- If there is old organic paint, it will be necessary to use MARCOSIL GRIP code 9310019 silicate connection base to even out absorption.
- Proceed to apply MARCOSIL RIEMPITIVO as described in the instructions.

\* (Dilutions of insulation and quantities to be applied depend on the absorption of the surface and must be determined with preliminary trials on the specific base.)

## APPLICATION INSTRUCTIONS

- Air and support surface conditions:  
Air temperature: Min. +8 °C / Max. +35 °C.  
Relative humidity of the air: <75%.  
Temperature of the surface to be treated: Min. +5 °C / Max. +35 °C.  
Humidity of the surface to be treated: <10%.
  - Do not apply in the presence of surface condensation or in direct sunlight.
  - After application, outdoor surfaces must be sheltered from rain and humidity until the product has dried completely, which normally (at 20°C) takes about 48 hours.
- Like all inorganic products, MARCOSIL RIEMPITIVO is extremely sensitive to the conditions in the environment and on the base, and so it is important to comply with the above specifications.

- 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 NEPTUNUS dehumidifying plasters, then paint with the NEPTUNUS siloxanic system.
- Thinning with water: 1st and 2nd coat 35 – 40%
- Stir before application
- N. of coats: 2
- Apply to base evenly with a brush.
- Wait at least 12 hours between coats of MARCOSIL RIEMPITIVO.
- Clean utensils with water immediately after use.
- Protect (shield) glass, ceramic, plastic, metal or natural stone surfaces during application.
- Approximate yield: 3.5 – 4 m<sup>2</sup>/litre on surfaces with average porosity. It is best to try using on the specific base to determine consumption.

**TINTING** The product is supplied white and may be coloured using the MARCROMIE colouring system.  
If separate or batches of coloured products are made or a job is completed with product made using a colour meter, mix production lots together to prevent slight differences in hue.  
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 1 year 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. C: Coatings for exterior walls of mineral substrate (water-base): 75 g/l (2007) / 40 g/l (2010)  
MARCOSIL RIEMPITIVO Contains max: 40 g/l VOC  
  
irritating to eyes and skin. / keep out of the reach of children. / avoid contact with eyes. / in case of contact with eyes, rinse immediately with plenty of water and seek medical advice. / wear suitable gloves. / if swallowed, seek medical advice immediately and show this container or label.  
The product must be shipped, used and stored in accordance with laws governing safety and hygiene.  
Please refer to the safety data sheet for more information.

**SPECIFICATION ITEM** Application of at least 2 coats of MARCOSIL RIEMPITIVO containing stabilized potassium silicate, organic binder and formula complying with the requirements DIN 18363 in the quantity required by the absorption of the surface on previously prepared surfaces.  
Supply and application of the material € ..... per m<sup>2</sup>.