



PRT.0336

PROTECH SIL P - THERM

Anti-condensation siloxane paint, sanitizing, heat-reflecting

Customs Code

3209 9000

Packaging

- Pail 4 l
- Pail 14 l

Application

- Low pressure airless nebulizer
- Brush
- Paint roller
- Sprayer



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Updated: **24/08/2020**

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Family
Protech

Product Lines
• **Building**

Components
Single-component

Type
Siloxane fixatives, paints and plasters

Functional Categories
• **Protective varnishing (painting)**
• **Thermal-insulating renewal of masonry**

Appearance

General description

Anti-condensation paint, elastic, sanitizing, heat-reflecting ideal for both external and internal facades, based on siloxane resin in emulsion, with high water vapour permeability and excellent covering power.

General features

PROTECH SIL P - THERM is a paint suitable for any type of mineral substrate, such as old and new plasters, synthetic plasters, sandstone walls, etc. For old emulsion paints, remove non-adherent parts, remove any impurities, repair any cracks or crevices and then consolidate everything with PROTECH FIX AC - THERM, a silicon water repellent fixative primer, also suitable for highly alkaline substrates.

PROTECH SIL P - THERM has excellent covering power: class 1 according to EN 13300 for a yield of 6/7 m²/l.

Dosage

Apply from 0.20 to 0.30 kg of PROTECH SIL P-THERM per square metre of surface to be painted.

Fields of application

In addition to the painting of external facades and internal environments, PROTECH SIL P-THERM has been designed especially for buildings and monuments subject to the protection of the ministry of cultural heritage. The binder based on an emulsion of silicones has allowed to develop a microporous filter impermeable to heavy rain, and at the same time permeable to the diffusion of water vapour. The great advantage of this paint is that it can be applied both on mineral (inorganic) supports and on previously treated supports with emulsion-based paints, creating a physical adhesion, with extremely microporous films. The particular chemical structure of the silicone binder produces a film resistant to light and atmospheric agents that is not destroyed even by microorganisms.

Basic features



Highlighted product



Density:
 $1.62 \pm 0.05 \text{ kg/dm}^3$



Dosage:
 $0.3 / 0.4 \text{ kg/m}^2$



Max. recommended thickness:
 $280 \mu\text{m}$



Min. recommended thickness:
 $180 \mu\text{m}$



Shelf-life:
 12 months



Temperature of use:
 $+5 / +3 \text{ }^\circ\text{C}$



To be applied in two coats



Available **colours**
Request available colors

Technical specifications

Grado di trasmissione dell'acqua liquida: $0.10 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$

Grado di trasmissione del vapore acqueo: 0.06 m

Deep hardening: 16 - 24 h

Dust-free time: 30 min

Hard to touch: 1 - 2 h

Permeability to water vapor: 115 µ

Solar reflection index (SRI) ASTM E1980-11: 108 _

Wet abrasion resistance EN 13300: 2 _

Tools cleansing

- Water

Applicable on

- Plasters
- Concrete
- Cement-based or lime-based mortars
- Prefabricated concrete
- Drywall
- Plaster (gypsum)
- Fiber-cement

Substrate preparation

For old emulsion paints, remove non-adherent parts, remove any impurities, repair any cracks or crevices and then consolidate everything with PROTECH FIX AC - THERM, a silicon water repellent fixative primer, also suitable for highly alkaline substrates.

SUPPORTS ALREADY PAINTED WITH SILICATE PAINT

Remove any stains and proceed with painting with the siloxane paint. (it is always recommended to apply a coat of siloxane impregnating agent).

NEW SUPPORTS

Apply a coat of siloxane acrylic fixative diluted from 20 to 60% with water depending on the absorption of the support.

OLD SUPPORTS

On old supports, remove the old paint by brushing, fill in any holes or imperfections in the wall with a suitable filler, proceed with fixing with siloxane impregnating agent diluted 20 to 60% with water depending on the absorption of the support.

Instructions for use

DILUTION (in volume with potable water)

1st COAT:

BRUSH: 15% one coat crossed or two coats 12-24 hours apart

ROLLER: 10%

SPRAY (with specific equipment): 15 - 25%

2nd COAT

BRUSH: 10%

ROLLER: 10%

SPRAY (with specific equipment): 15 - 25%

On large surfaces, it is recommended to apply the product of the same lot and proceed always wet on wet to avoid signs of resumption. Never operate at temperatures below + 5°C. Rainy weather, excessive atmospheric humidity and temperatures below + 8°C, can considerably compromise drying with the possibility of rainwater washout even after several days. In these situations, it is advisable to protect the facades from unpredictable showers, in order not to jeopardize the success of the work. For storage store in tightly closed containers and protect from frost.

Storage and preservation

Protect from freezing. Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity. Store the product at a temperature between +5°C and +35°C.



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Warnings, Precautions and Ecology

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge.

Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: www.azichem.com. The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: www.azichem.com.

It is forbidden to dispose of the product and/or packaging in the environment.

PROTECH SIL P - THERM is produced/distributed by



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