CLIMAPLUS

CLIMASIL PLASTER DEC 438

SILICONE BASED COLORED RENDER

CLIMASIL PLASTER DEC 438 is a high quality, silicone based render in paste form, with high hardness. It offers resistance to ultraviolet radiation (UV) and atmospheric conditions. Due to its special characteristics it is recommended for the façade renovation of old buildings and the protection of cultural monuments. Available in Scratch and Rillen styles.



Advantages:

- Available in a wide range of colors.
- Does not need painting.
- Used either as an external top coating, or internally as a decorative coating.
- High elasticity, thus:
  a) Little tendency distortion from shrinkage during curing time.
  b) Greater resistance to temperature changes over time.
- Provides extremely high water-repellency.
- Excellent transpiration ability of surfaces.
- Resistance to UV radiation.
- Greater resistance hue over time (due to low alkalinity).
- Easy to clean from dirt. Cleaned only with water.

EN 15824 · ETAG 004 · CE

LOW VOC · ISO 14001 · ISO 9001 Quality System · Ελληνικό προϊόν Hellenic product

EPD
INTERNATIONAL EPD SYSTEM

TECHNICAL CHARACTERISTICS

Packaging:

Plastic container
• 25kg

Application:

Suitable for application as a final coat render for exterior thermal insulation system THRAKON CLIMAPLUS.

Shades:

It can be colored in a wide range of colors, through the THRAKON ULTRA COLOR system.

Storage:

In a dry environment with temperature greater than 0ºC for 24 months from date of production.

Tools cleaning:

With water immediately after the application.

VOC:

CLASS A/c. Exterior walls of mineral substrate (W.B.) V.O.C. limit: 40 gr/lt. Maximum V.O.C. of product ready to use: 39 gr/lt.

Consumption:

RILLEN
2.0mm: 2.7kg/m²

SCRATCH

1.0mm: 1.8kg/m2
1.2mm: 2.0 kg/m²
1.5mm: 2.5 kg/m²
2.0mm: 3.3kg/m²

FIELDS OF APPLICATION

- Used as a final layer plaster on the external thermal insulation THRAKON CLIMAPLUS.
- Applied over surfaces plastered with final layer plasters (FHP 221 WR, FHP 225 WR) or with one hand plasters (NHP 250 WR, NHP 255 WR) or painted with acrylic paints.
- Also applicable on concrete surfaces, plasterboard and cement board.

SUBSTRATE PREPARATION

The substrate should be clean from dust and oils which can reduce adhesion. Large unevenness and cracks in the substrate should be repaired. Prior to application of CLIMASIL PLASTER DEC 438 the surfaces should be treated with the primer CLIMA PRIMER GLX 498.

APPLICATION

Mix CLIMASIL PLASTER DEC 438 with an electric stirrer. After sufficient stirring the plaster is applied over the primer with a stainless steel spatula. Treat the plaster with a plastic spatula. After completing the application, the tools should be cleaned immediately with plenty of water.

APPLICATION TEMPERATURE

Between +5ºC to +25ºC. If the temperature exceeds +30 º C it is recommended to add 200-250ml clean water/ 25kg container product. Not recommended for application under direct sunlight, rain and strong winds. It is necessary to properly protect the facade. High humidity and low temperatures may prolong the hardening time of the plaster.

COLOR TOLERANCE

THRAKON does not recommend dark and intensive colors to be used on ETICS. Always consider that facades with darker colors absorb more heat than facades with lighter colors. This causes higher stress even discoloration on the façade when solar heating during the day is followed by quick cooling during the night, or sudden rain appear on heated surfaces. Color uniformity may be affected by substrate conditions, temperature and humidity. In addition, facade surfaces not covered with burlap, unevenness of the substrate (structure, absorbency), or different weather conditions may contribute to color differences.
A uniform color result can only be achieved if the products come from the same production batch. If you use different production batches, you can mix them before application. Substrate imperfections may affect the final shade. Color deviations do not affect the quality of the product. The aggregates used in our final coatings are natural products. Therefore, they may be detected as darker grains. This is not a material quality issue.
As a general rule the Lightness Value (LV) or Hue Blackness Whiteness (HBW) of the colored plaster applied on the ETICS should not be smaller than 25%. The Lightness Value is a grade of reflection of a color tone between the black point (= 0) and the white point (= 100). This value points out the deviation of a color from the dark or the white point. The use of dark colors on ETICS is possible if they will not be used for more than 10% of the whole façade (ex. like decorative elements).

Legend and symbols
☼ → Lightness Value (LV) or Hue Blackness Whiteness (HBW)
CG → Color Group

PRECAUTIONS

Protect eyes and skin. In case of contact, wash with plenty of water. In case of contact with eyes, seek immediate medical advice. Read the information on the label and technical brochure before use. Wear appropriate protective clothing and gloves. The MSDS of the product is available upon request to the professionals.

Technical characteristics	Units	Standard	Value
Form			Paste
Color			Various shades
Mixture density	g/ml	EN 1015-6	1,88 ± 0,005
Adhesion to substrate	N/mm^2	EN 1542	0.5
Dry residue (105°C)	%		84 ± 3
Permeability at 24 h	g/m^2		227.94
Reaction to fire		EN 13501	Euroclass A2-s1,d0
Thermal Conductivity λ	W/mK	EN 1745	0.7

*Note: The measurements were taken in laboratory environment under normal temperature and relative humidity conditions (+23°C, 50%). It is possible for them to vary depending on the conditions prevailing at the worksite (temperature, humidity, absorbability of the substrate).

The technical information and instructions contained in the present brochure and referring to the application and end use of Thrakon products are based on the up to now know-how and experience of the Company with regards to the products and are provided in good faith as long as such products are stored, used and applied as per Thrakon recommendations. Due to the inability, on our part, to directly inspect the conditions prevailing at the worksite as well as the application procedures of the product, the Company does not provide any guarantee with regards to the adequacy of its products for specific purpose while the Company shall not bear any legal responsibility based on the information stated in the present brochure or any other written, oral, or otherwise provided recommendations and instructions. The users of the products are advised to perform a limited surface testing of the products adequacy for the eventual application and use intentions. Thrakon reserves the right to modify the features of its products without prior notification. All orders shall be approved only following acceptance of the above and under the eventual Commercial Policy terms of the Company. The issuance of the present brochure voids any prior version.
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