ThermoProtect ABC

Technical Description

Product description
ThermoProtect is a matte, water-based, and durable ceramic membrane for facades based on dispersion acrylic.
ThermoProtect is safe for people and the environment and carries the GreenGuard Gold certification.

Applicability
ThermoProtect is suitable for virtually all mineral facade substrates, whether painted or not. It is also suitable for metal. Nature is recommended for wood. Its special composition ensures capillary dehumidification of the facade, is variably vapor-permeable, reflects (solar) heat, and minimizes thermal bridges. It is particularly suitable for objects susceptible to algae growth. Furthermore, ThermoProtect has an extremely long lifespan, with virtually no cracking.

Environment
ThermoProtect is EPD-tested according to EN15804+A2 (+ indicators A1), verified, and registered with the MRPI® under number 1.1.00870.2025.
Furthermore, ThermoProtect holds the Greenguard Gold certificate.

Specific features
- Water-repellent
- Sunlight-reflecting
- High UV resistance (low risk of powdering)
- Highly resistant to aggressive environmental influences, such as smog
- Elastic (bridging the material)
- Highly colorfast, matte
- Virtually emission-free (suitable for allergy sufferers)

Color
Standard: white. Available in almost all colors.
Please note that most color charts are presented in a semi-gloss finish.
ThermoProtect is matte, and the color may appear distorted compared to a semi-gloss or high-gloss finish due to light.

Packaging
Buckets of 5- and 12.5-liters. Other packaging available upon request.

Basic data

Specific gravity	1,06 kg/l
Solid content	app. 56%
Shelf life	in closed original packaging at a temperatuur

ClimateCoating-Caribbean

www.climatecoating-caribbean.com
info@climatecoating-caribbean.com

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between 5°C and 30°C: at least 12 months from production date.

Drying times at 20 degrees and 60% relative humidity

Overcoat	after app. 4 hours
Remarks	ThermoProtect regulates itself and all properties are fully developed after approximately 36 days.
Adhesion tests	Perform adhesion tests only after approximately 1 month.

Coverage

Recommended wet layer thickness	approx. 330 µm / dry approx. 260 µm
Theoretical coverage	depends on the nature and structure of the substrate and the application method: approx. 6 m²/l per rolled coat, if necessary, determine by applying a test area. Two rolled coats should be applied to achieve the required layer thickness. Alternative is to spray in one layer.

Material data

- VOC content: <3g/l
- Viscosity (KU unit): 120
- pH value: 8
- Vapor diffusion resistance (µd, DIN 52615):
  - 0.7m (wet) (RH 50-93%)
  - 1.3m (dry) (RH 0-50%)
- Flammability rating (EN 13501-1):
  - C (difficult to ignite on mineral substrates), S1; D0
- DIN-EN 13300:
  - gloss level: matt
  - grain size: fine
  - moisture wicking: class 3
  - contrast in relation to covering power: class 2
  - scrub resistance: class 2
- Fineness (DIN 1524): <40 µm

Substrate conditions

The substrate must be clean, dry, and free of grease.
The surface to be treated must be (wind) dry.
The weather should remain dry for several days after application.

Pretreatment

Any algae or moss can be sprayed off with hot pressure or treated with ClimateCoating FixCfC.
Some surfaces require pretreatment first:

Metal:	*ClimateCoating Zinc Primer*
Stone:	*ClimateCoating FixPlus*
Plastic:	*Plastic primer (possibly ClimateCoating NaturePrimer)*

Application Conditions

- Substrate and ambient temperature above 5°C
- Relative humidity maximum 85%
- The substrate temperature must be at least 3°C above the dew point

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Processing data

Recommended brush:	flat or round brush
Recommended paint roller:	*high-quality fleece roller, such as:* • STORCH FineSTAR 15 (core Ø 60 mm, pole 15 mm) • ANZA Micmex (core Ø 48 mm, pole 18 mm) • CaluPaint Polyamide (core Ø 55 mm, pole 14 mm)
Airless-spray:	ThermoProtect's low specific gravity makes it easy to spray. For example, with equipment from Wagner (HEA, High Efficiency Airless) or Graco (FFLP, Fine Finish Low Pressure). If you have any questions, please contact us. • Nozzle/tip 0,017-0,021” • Static pressure 110-150 bar, workload 90-120 bar; • The sieve from the hand gun should be slightly coarser than usual for wall paints, i.e., 50 mesh/300 micron, or • remove it if necessary; • hose diameter (internal) 6 mm
Dilution:	0 – 5 % water
Cleaning:	rinse thoroughly with water

Curing

ThermoProtect dries relatively quickly, but the final curing process takes a few days under the influence of UV light (daylight). Avoid precipitation or water.
It is advisable to leave the finish undisturbed during this time, so do not overload it.

Disposal

Do not dispose of product residue in the environment. Only recycle empty buckets. Dispose of product residue at the appropriate waste disposal sites. Waste code No. 080120 according to EU markings.

Safety Instructions

Despite all the care taken in compiling this information sheet, we are not liable for any errors; therefore, no rights can be derived from this product sheet.

For more information, visit our website **www.climatecoating-caribbean.com** or call or email us.