

ENVI-GEL 365 *COOL+*

Insulation Plaster

ENVI-GEL 365 COOL+ has enhanced thermal and acoustic insulation properties and can be applied on internal and external facades to improve insulation by reducing heat transfer through walls and ceilings. This helps to improve energy efficiency, for both retention of coldness or heat within a space.

Key Features

- ✓ **Thermal Insulation:** Depending on application, it can help to prevent heat from passing through the walls during hot weather and at the same time prevent heat loss from the walls in cold weather. This reduces energy consumption required for heating and cooling.
- ✓ **Acoustic Insulation:** It can reduce noise transmission, making it ideal for use in buildings located in noisy environments or in multi-unit dwellings.
- ✓ **Moisture Control:** It is waterproof, which can help prevent mold and mildew growth.
- ✓ **Breathability:** It allows walls to breathe, thus preventing condensation and moisture buildup.

Benefits

- ✓ **Energy Efficiency:** Helps reduce energy costs by improving thermal insulation.
- ✓ **Improved Comfort:** It enhances the overall comfort of living or working spaces by stabilizing interior temperatures.
- ✓ **Soundproofing:** It offers noise reduction, especially in buildings with high foot traffic or external noise.
- ✓ **Durability:** It is resistant to cracking and wear overtime, helping to extend the service life of your buildings or assets.

ENVI - GEL 365 COOL+

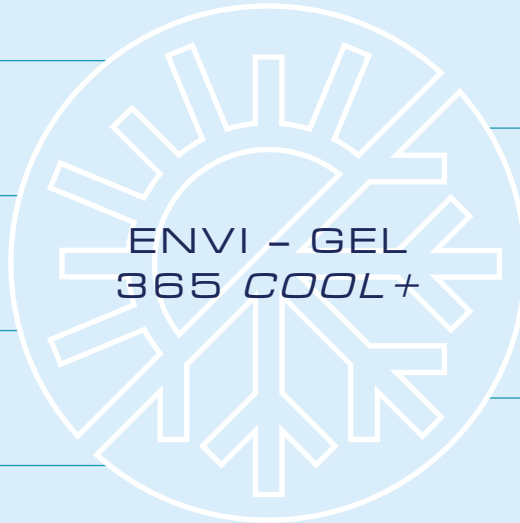
Designed to reduce heat build-up

ENVI - GEL 365 COOL+ is an inorganic, high performance thermal insulation product designed reduce heat build - up in concrete from reaching internal space.

Inorganic, modified cement plaster that is 100% fireproof

Complies to SCDF fire requirements for critical locations

Technologically modified for 10X improvement in K value (0.05 W/m^2)

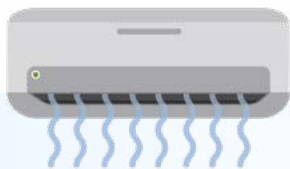


Can be applied on existing exterior paints to improve U value

Repels water and maintains thermal properties

It adheres tightly to concrete substrates without any gaps and can be used in place of mineral wool and foam type insulation material, achieving a similar insulation efficiency at a fraction of the thickness. ENVI-GEL 365 COOL+ is fireproof and suitable for application in critical areas such as staircases and ceilings.

IDEAL CONFIGURATION



HEAT FLUX AT WORK

As Special Cooling Containment

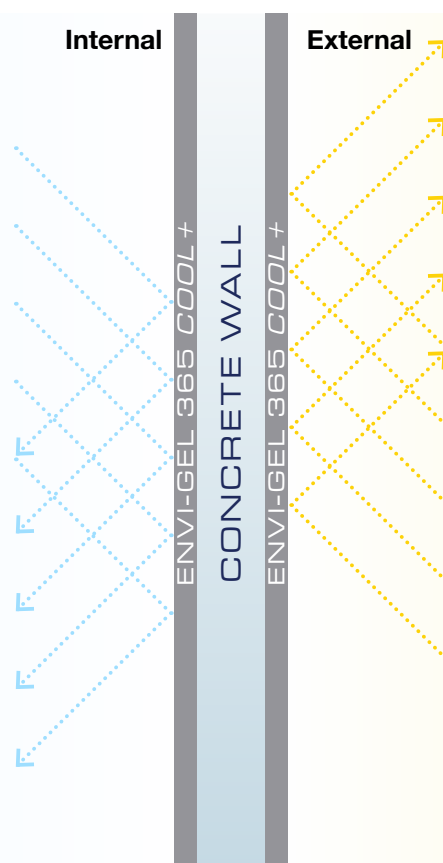
Any residual heat stored in the wall is blocked by ENVI-GEL 365 COOL+ from reaching inner space.

Space cooling appliances work lesser as cold air is insulated by ENVI-GEL 365 COOL+ and will not be conducted away by the substrate.

The difference in temperature between external environment and internal space is now buffered by ENVI-GEL 365 COOL+.

1-2mm of ENVI-GEL 365 COOL+ to achieve 3°C to 5°C of temperature reduction

ENVI - GEL 365 COOL+ Energy Optimization System



SOLAR REFLECT AT WORK

As a Heat Reflector and Insulator

91% of the solar radiation is reflected off the substrate.

Amount of heat transferred and stored in the substrate is significantly reduced.

Substrate material will have less expansion/contraction.

1mm of ENVI-GEL365 COOL+ to achieve 5°C to 10°C of temperature reduction

Application Areas

Interior Walls

ENVI-GEL 365 COOL+ can be applied as typical plaster of least 1 mm to achieve 3°C to 5°C temperature reduction of walls and ceilings

Application Data

Method	Brush, roller or airless spray and trowel.
Coverage	1kg material for 2000um build thickness/m ²
Dilution	Add 7.5 litres of water per 10kg of material to achieve 20m ² of 1000um insulation
Substrates	Direct application to new/unpainted concrete surfaces, as well as painted surfaces.
Surface Preparation	Ensure surface is free from dust, grime and dirt. Power wash with water to remove any visible organic growth (algae, mold). Repair all concrete cracks prior to application.
Application Temperature	25°C to 35°C. 3°C above dew point.
Drying Time	Allow at least 24 hours for full cure or check moisture content below 20%

Performance Specifications



Thermal Conductivity
0.056 W/m.K
ASTM D5930-17



Solid Content
100%



Storage
Store in cool place away from direct sunlight. Ensure Lid is properly closed.



Shelf Life
2 Years

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