



ADH-THERMAL COATING

Thermal Insulating Coating

Technical Data Sheet

Definition

ADH -THERMAL COATING™ is a water-based, high-performance, low-heat permeability, special micro-scale processing, acrylic dispersion-based coating modified with ceramic-glass technology, used in interior, exterior and roof surfaces and many other areas, providing up to 50% heat insulation and energy savings.

Application Areas

It is suitable for use in residences, living spaces, public buildings, production facilities, warehouses, storage facilities, hangars, cold storage facilities, rail systems, tunnels, geothermal facilities and fields, energy transmission lines, transformers, silos and many other domestic and industrial areas.

Product Features & Advantages

- Provides heat and energy savings of up to 50%.
- Has low thermal conductivity.
- Protects the thermal balance of the structure.
- Has fire retardant properties.
- Isolates the surface against water.
- Prevents moisture and mold formation.
- Has antibacterial properties.
- Has electrical insulation properties.
- Resistant to UV rays.
- Does not crack or break.
- Prevents condensation on the surface.
- Has a breathable structure.
- Provides time and labor savings.
- Made of organic materials, environmentally friendly.

Surface Preparation

- The surface must be dry and ready for application.
- The surface must be cleaned of dust, dirt, oil, and old blistered coatings that may prevent good adhesion.
- Weak substrate areas, such as cracked plasters, weak surfaces, or moss residues, must be removed.
- If necessary, surface cracks should be filled and leveled with crack filler.

Application

- The application temperature should be between +5°C and +40°C.
- ADH-Primer should be applied as a primer and left to dry for 12 hours.
- An opened package should be mixed with a low-speed mixer.
- The product should be applied in three coats without adding water or solvents.
- At least three coats are recommended.
- There should be approximately 6 hours between coats.
- If painting is interrupted for a long time, the product should be mixed again before resuming application. This is a crucial factor for product efficiency.

Post-Application Protection & Recommendations

- **ADH-THERMAL COATING** is a ready-to-use product. Please do not add any additives other than those recommended in the data sheet.
- The product should be used within its shelf life. Expired products should not be used.
- When coating a surface treated with **ADH-THERMAL COATING**, the thermal coating material should not be damaged by mechanical effects and should be protected during curing.
- Freshly applied surfaces should be protected from direct sunlight, strong air currents, high air temperatures (above +40°C), rain, and frost in the first few days.
- If the application is interrupted, keep the package sealed. The product should be protected against freezing.
- It should not be applied under extreme heat, direct sunlight, excessive wind, foggy, rainy, or frost-risk weather conditions. Low temperatures and high relative humidity may extend drying time.
- It should not be applied in rainy weather, and the applied surface should be protected from rain for 24 hours.
- The surface should not be exposed to heavy traffic.
- During application, the surface and ambient temperature should be between +5°C and +40°C.
- The consumption values in the technical table indicate an average consumption amount and may vary depending on application conditions and surface characteristics.



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Packaging

18 kg (Metal Bucket) / 2.5 kg (Plastic Bucket)

Storage & Shelf Life

12 months in its unopened original packaging.

Technical Specifications

(at 23 °C and 50% RH)

General Data

Appearance	White liquid
Structure	Based on polymer dispersion
Density	approximately 1.20 gr/cm ³
Shelf Life	12 months when stored in original packaging.

Application Data

Application Temperature Range	(+5°C) - (+40°C)
Drying Time	6 hours
Waiting Time After Application	Max. 48 hours
Single Coat Consumption	260 gr/m ² /layer (Varies depending on the surface.)
3 Coat Min. Consumption	780 gr/m ² / 3 layers (Varies depending on the surface.)
3 Coat Max. Consumption	1000 gr/m ² / 3 layers (Varies depending on the surface.)

