

**FUMÉE  
BLEUE**



**Technology brings you a safe  
& comfortable environment**

# **AEROGEL INSULATING COATING VERSATILE HIGH PERFORMANCE**

The best high-performance insulating coating for the preservation of  
historic buildings and monuments,  
renovations of existing housing and for new buildings



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# Aerogel Insulation & Waterproof Coating



The solar reflectance of the Aerogelblue **reflective heat insulation coating** can reach **0.90**, far exceeding the national building materials industry standard (Ministry of Construction requires a reflectance  $\rho \geq 0.65$ ).

Applying a 0.8mm thick reflective heat insulation coating on the surface of the storage tank, it can achieve a **significant effect of energy conservation and consumption reduction**. This coating also has **functions such as anti-corrosion, fire prevention and water resistance**.

**Thermal insulation**

**Waterproofing**

**Mold prevention**

**Anti-corrosion**

## Dense paint film

The coating exhibits excellent **weather resistance and stain resistance**, with a dense paint film.

## Durable reflective insulation efficacy

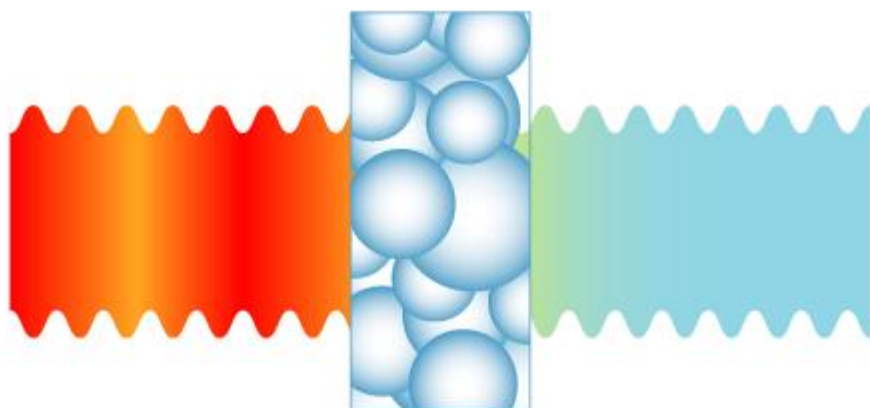
The coating can achieve a solar **reflectance of up to 90%** and a **hemispherical emittance of over 85%**. Both the solar reflectance and hemispherical emittance remain stable over time without significant degradation, **Ensuring long-lasting reflective insulation performance**.

## Excellent thermal insulation properties

Using nano-porous blue smoke material as filler, the product achieves a low thermal conductivity coefficient, resulting in enhanced insulation performance. **Its thermal conductivity at room temperature ranges from 0.030 W/(m·K) to 0.038 W/(m·K)**.

## Eco-friendly product

Utilizing material composite technology, a variety of inorganic elements are modified to create a water-based binder, which endows the product with excellent heat resistance, adhesion, and surface strength, while also ensuring its environmentally friendly properties.



Reduce heat  
conduction



Heavy-Duty  
Waterproof





High temperature &  
Humid environment





With excellent insulating performance better than traditional insulation coating, AEROGEL insulating coating can be used in very wide range of applications. It can greatly save energy and lower the temperature.

- The **renovation of existing housing**, where safety, durability and energy efficiency are the main priorities.
- **New buildings**, where wall thicknesses can be reduced and unconventional architectural solutions become possible.
- The **renovation of historical buildings worthy of preservation**, in which value conservation, optimization of living comfort and an increase in value are the goal.
- The **renovation of public constructions**, like communication tower, power stations, etc.





# Aerogel Insulation Paste



Aerogelblue Thermal Insulation Ointment is a **high-efficiency, energy-saving, and environmentally friendly thermal insulation coating** containing aerogel components. It is a patented product of Aerogelblue. Using aerogel as its active ingredient, it is not only eco-friendly and non-polluting but also exhibits low thermal conductivity, compared with traditional insulation paint, **providing more excellent thermal insulation performance and longer lasting time.**

**Reflective insulation**

**Energy saving**

**Environment protection**

**Green and Safe**



Using a 500W lamp to illuminate the specially shaped workpiece for rapid heating. The measured temperature reached **73.1°C.**



The back was insulated with a thermal paste coating, with a measured temperature of **40.1°C.**

## Excellent heat insulation effect

Thermal conductivity  $\leq 0.045\text{W}/(\text{m}\cdot\text{K})$ , with an insulation effect **2-5 times** that of traditional insulation materials and **a longer service life (up to 20 years).**

## Hydrophobicity & fire resistance

The surface exhibits **superhydrophobic properties**, effectively preventing electrochemical corrosion, and **possesses Class A1 fire resistance.**

## Enables a thinner insulation layer

It achieves the same insulation effect with a thickness only **one-third to one-fifth** that of **traditional materials.**

## Eco-friendly product

Utilizing **material composite technology**, a variety of inorganic elements are modified to create a water-based binder, which endows the product **with excellent heat resistance, adhesion, and surface strength**, while also ensuring its **environmentally friendly properties.**

## Easy installation

It can be applied by **spraying, rolling, or brushing**, and **allows** for construction on surfaces within **a certain temperature range.**





# Extremely Cold Environment ””





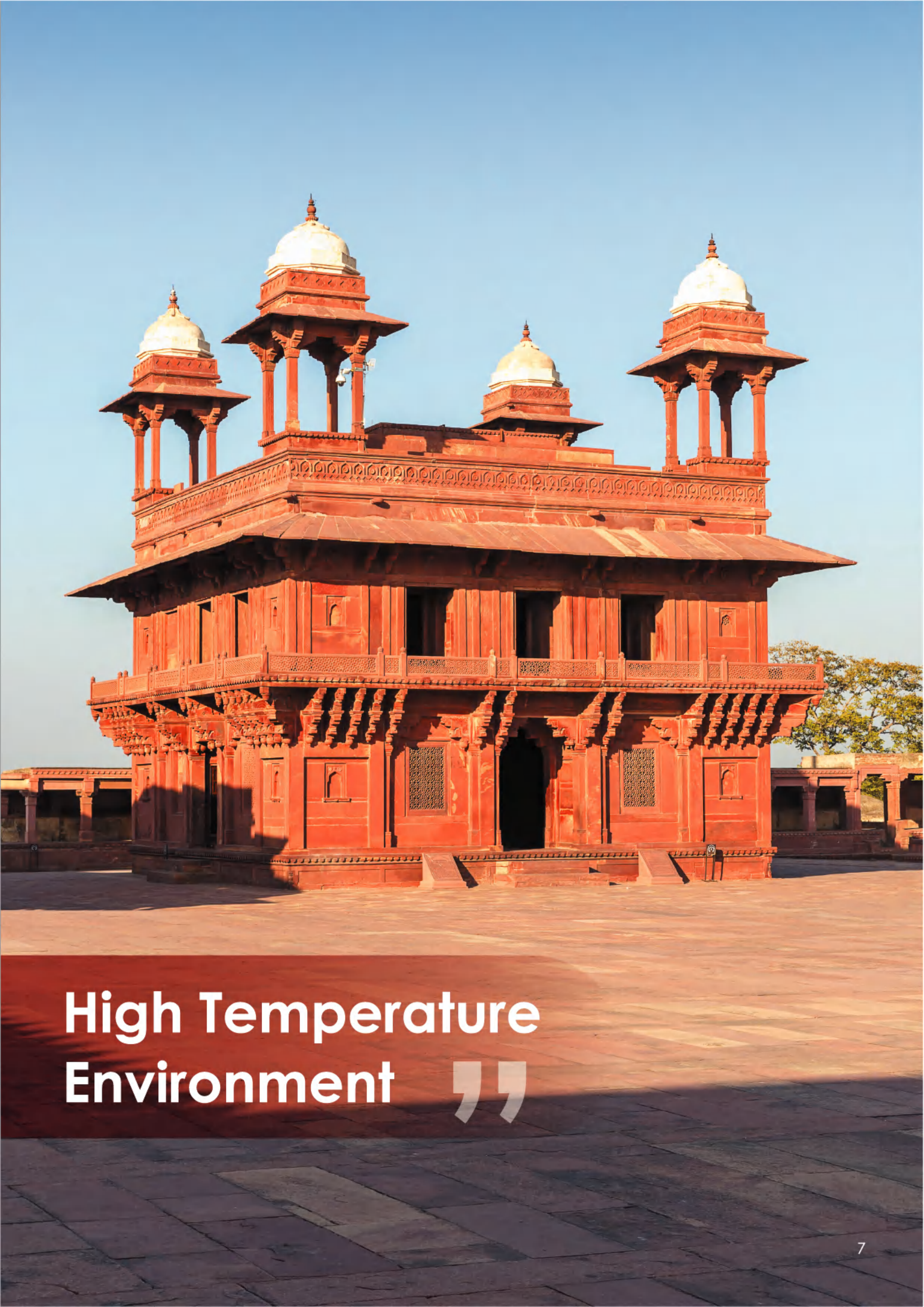


Stable guarding under the  
extreme low temperatures

- ***Reflective insulation***
- ***Energy saving***
- ***Environmentally friendly***
- ***Green and Safe***







High Temperature  
Environment ”





Stable guarding under the extreme heat temperatures



- Insulation effect is 2-5 times more than traditional materials
- Effectively prevent electrochemical corrosion
- Class A1 fireproof performance
- Green environmental protection



# Aerogel Photocatalytic Coating



This product is a single-component, water-based, and environmentally friendly coating with nano-titanium particle-infused silica aerogel as its active ingredient. It offers multifunctional benefits including air purification, **mold resistance, bacterial elimination, and odor removal.**

**Clean flavor formula**

**Degradation of formaldehyde**

**Degradation of toluene, viruses, and bacteria**

## Adsorption capacity far surpasses activated carbon

This product is a complex formed by combining aerogel with titanium dioxide. Aerogel has a high porosity and a large specific surface area. Its **pore structure is open and interconnected**, which endows it with **strong adsorption capacity**, far exceeding that of activated carbon.

## Purifies formaldehyde with green, powerful efficiency

Under the excitation of light sources (visible or

ultraviolet), the surface of **nano-titanium dioxide will generate electron-holes**, which react with oxygen and water adsorbed on the **surface to form superoxide radicals -O<sub>2</sub> and hydroxyl radicals -OH**. The free radicals produced have a strong oxidation capacity, which can oxidize and decompose organic matter into carbon dioxide and water, and also **kill bacteria and viruses**.

The Aerogelblue Titanium coating not only exhibits exceptional adsorption and catalytic **properties but also provides continuous purification of formaldehyde in indoor air**, all while offering dual efficacy in **mold prevention and antibacterial protection**.



## Aerogel technology



## Other similar products

After being saturated and released, the result is still absorbed by the human body







# ” Home environment & Public indoor spaces

- **Continuous purification of formaldehyde from the air**
- **Unlike the traditional indoor coating, Aerogelblue coating will not release formaldehyde even after long time using, with excellent stability**
- **Provides mold-proof & Antibacterial protection**





**Ideal for:** children's rooms, kindergartens, schools, offices & other spaces.







# Make It Yours. Choose Your Color.



**Ice Age-1**  
C15 M0 Y2 K0



**Jungle Vines-1**  
C14 M0 Y15 K0



**Parrot Yellow-1**  
C0 M0 Y18 K0



**Rocket Red-1**  
C0 M19 Y12 K0



**Bluebird-1**  
C25 M0 Y0 K0



**Ice Age-2**  
C30 M0 Y5 K0



**Jungle Vines-2**  
C29 M0 Y30 K0



**Parrot Yellow-2**  
C0 M3 Y36 K0



**Rocket Red-2**  
C0 M38 Y25 K0



**Bluebird-2**  
C50 M0 Y0 K0



**Ice Age-3**  
C44 M0 Y7 K0



**Jungle Vines-3**  
C44 M0 Y14 K0



**Parrot Yellow-3**  
C0 M4 Y54 K0



**Rocket Red-3**  
C0 M57 Y37 K0



**Bluebird-3**  
C75 M0 Y0 K0



**Ice Age-4**  
C59 M0 Y9 K0



**Jungle Vines-4**  
C58 M0 Y59 K0



**Parrot Yellow-4**  
C0 M0 Y72 K0



**Rocket Red-4**  
C0 M76 Y49 K0



**Bluebird-4**  
C100 M0 Y0 K0

**We can customize colors according to your needs**  
**Contact our sales colleagues for more color swatches**

We have reproduced paint colours as faithfully as modern printing techniques allowed.

Please note that the shape, size and lighting of a surface can influence the appearance of the final colour.

The final interpretation right belongs to Aerogelblue.



For more information,  
feel free to contact us anytime

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This brochure contains an overview of Aerogel insulating plasters and is intended as initial information.

The use of Aerogel insulating plasters in a specific building and construction project should only be carried out after a professional consultation. The brochure has been carefully checked before printing.

Nevertheless, printing errors cannot be completely ruled out.