



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

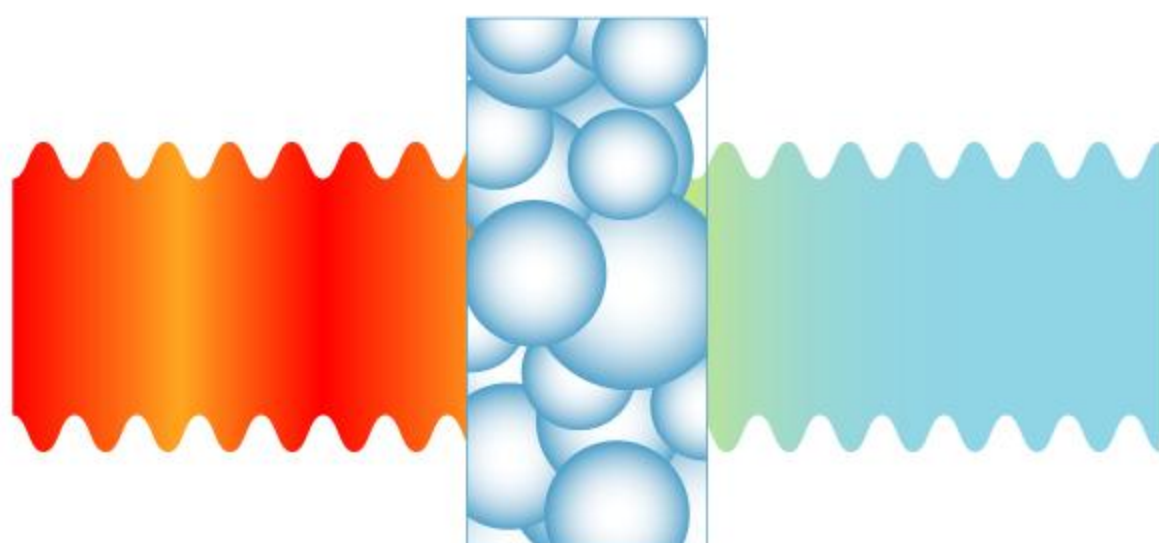
The coating can achieve a solar **reflectance of up to 90%** and a **hemispherical emittance of over 85%**. Both the solar reflectance and hemispherical emittance remain stable over time without significant degradation, **Ensuring long-lasting reflective insulation performance**.

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



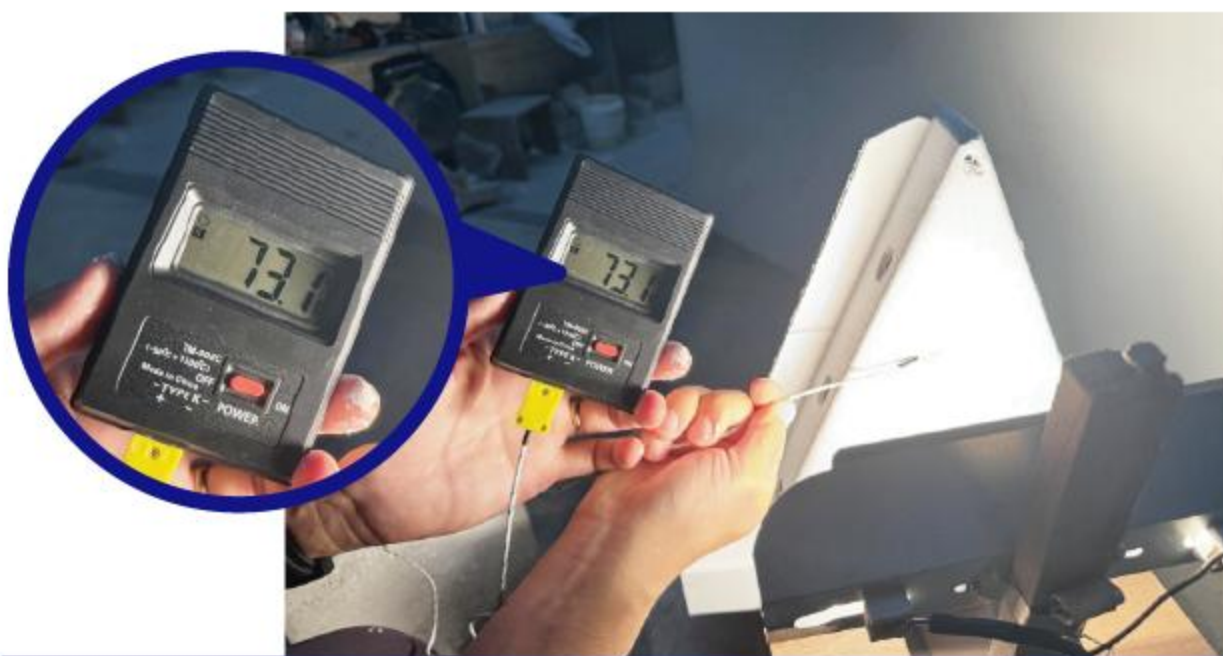
Aerogelblue Thermal Insulation Ointment is a **high-efficiency, energy-saving, and environmentally friendly thermal insulation coating** containing aerogel components. It is a patented product of Aerogelblue. Using aerogel as its active ingredient, it is not only eco-friendly and non-polluting but also 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.**



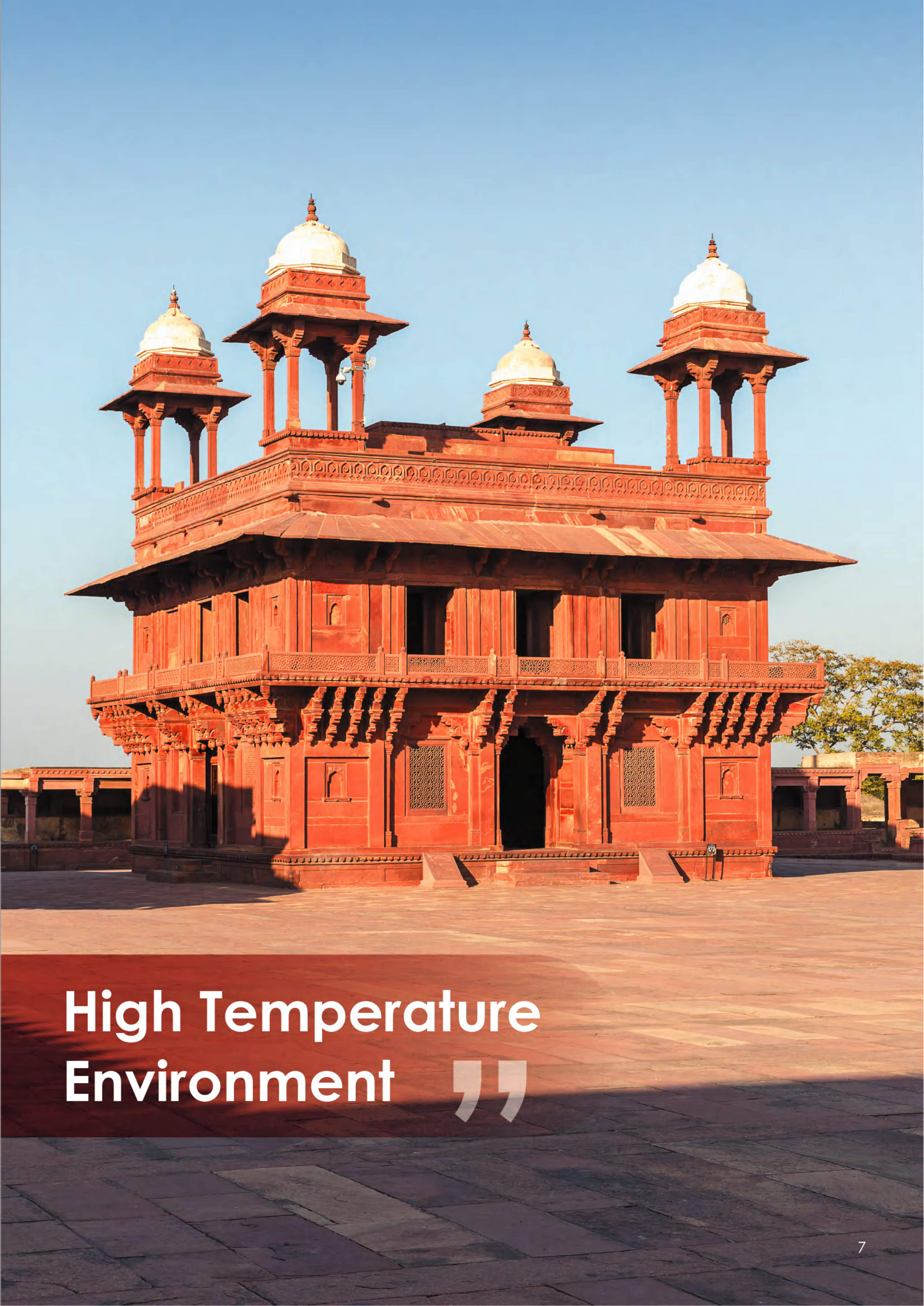
Extremely Cold
Environment ””



*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 -O₂** 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
C15 M0 Y2 K0



Jungle Vines
C14 M0 Y15 K0



Parrot Yellow
C0 M0 Y18 K0



Rocket Red
C0 M19 Y12 K0



Bluebird
C25 M0 Y0 K0



Ice Age
C30 M0 Y5 K0



Jungle Vines
C29 M0 Y30 K0



Parrot Yellow
C0 M3 Y36 K0



Rocket Red
C0 M38 Y25 K0



Bluebird
C50 M0 Y0 K0



Ice Age
C44 M0 Y7 K0



Jungle Vines
C44 M0 Y14 K0



Parrot Yellow
C0 M4 Y54 K0



Rocket Red
C0 M57 Y37 K0



Bluebird
C75 M0 Y0 K0



Ice Age
C59 M0 Y9 K0



Jungle Vines
C58 M0 Y59 K0



Parrot Yellow
C0 M0 Y72 K0



Rocket Red
C0 M76 Y49 K0



Bluebird
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.