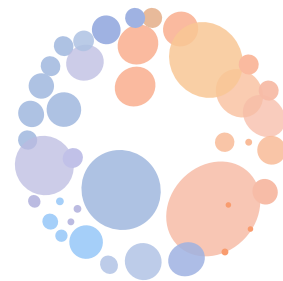


**PAINTING**  
the globe with  
**AEROGELS**  
for an  
**EVER-INSULATING**  
environment  
**& GREENER**  
tomorrow



AeroGarde®  
redefining insulation.



AeroGarde 360: An Eco-friendly Breathable 3-in-1 Insulating Paint  
**HEAT-SOUND-FLAME**

# AEROGARDE® 360

## 3-in-1 concept

**AeroGarde 360** is a state-of-the-art formulated paint under the AeroGarde® Paint Series.

It is a 3-in-1 version thereby delivering heat insulation, sound attenuation and flame proofing altogether. Being breathable, it also allows moisture (water vapour) to easily flow through the surface, reducing condensation, mould and mildew. At the same time, it makes the surface hydrophobic, hence repelling water in its liquid form.

This ecological water-borne paint has been prepared with a harmonious combination of high-performance polyurethanes, elastomeric acrylics, resin additives and Aerowder® to produce a tough yet flexible and breathable coating film – just like the human skin. AeroGarde® 360 has been developed to provide several performance-driven functions for wellbeing, efficiency and profitability across residential, commercial and industrial milieus.



Blocks heat transfer



Dampens sound



Non-flammable



Repels water & controls moisture



Saves energy



Induces comfort



Nature-friendly



Non-toxic



Inhibits corrosion & thermal shock





# TECHNIQUE: MEASUREMENT OF DISTANCE USING SOUNDWAVE

1. Sound wave

2. Echo

3. Time

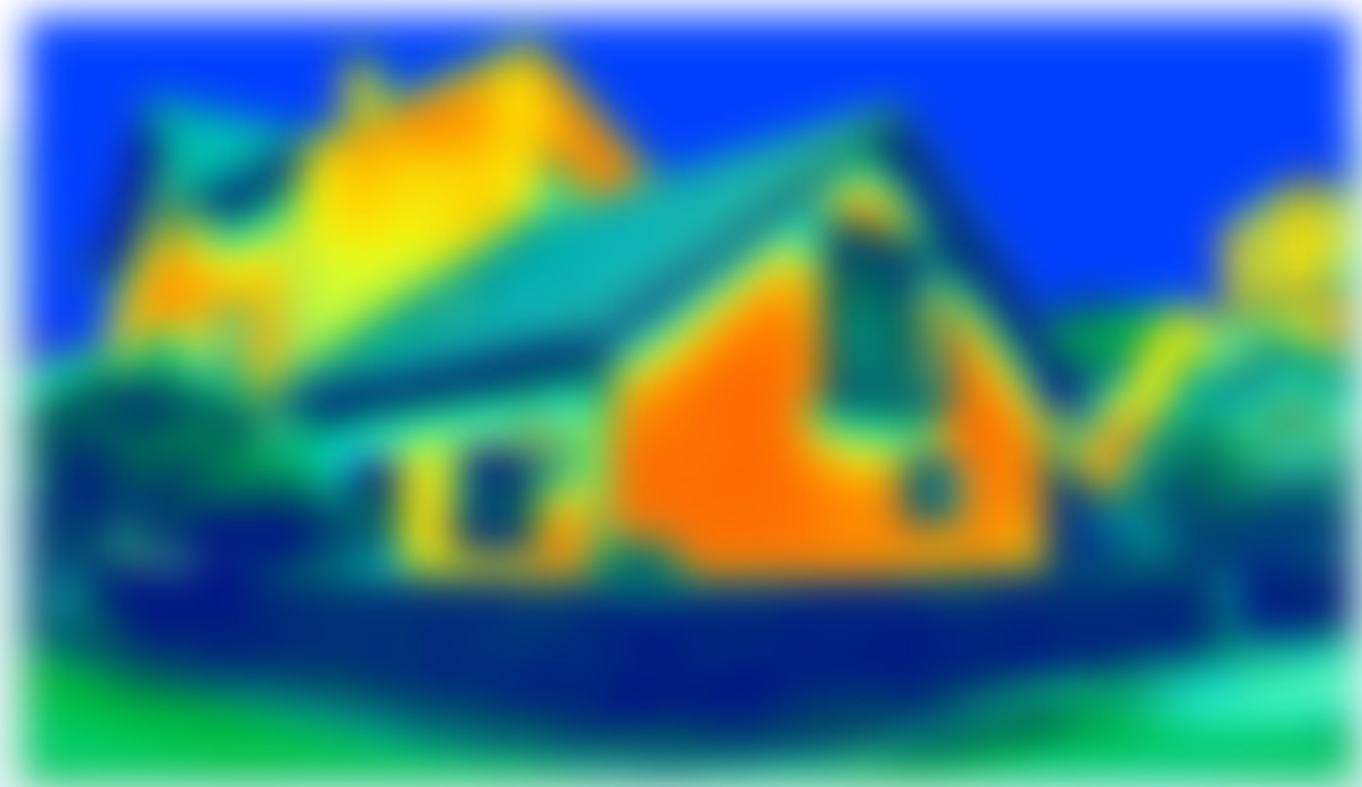
4. Distance

5. Speed

6. Accuracy



# DELIVERING BEST PERFORMANCE



EnergyPlus is a powerful, open-source energy simulation software that helps building owners and designers understand how their buildings will perform. It can simulate energy use, indoor air quality, and occupant comfort. EnergyPlus is used by a wide range of professionals, from architects and engineers to researchers and policymakers. It is a key tool for creating more sustainable and efficient buildings.

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1. The first step in the process is to identify the problem or goal that needs to be addressed.

2. Next, it is important to gather relevant information and data to understand the problem better.

3. Once the information is gathered, the next step is to analyze the data and identify potential solutions.

4. After identifying solutions, it is necessary to evaluate the options and choose the most effective one.



1. **Introduction**

2. **Background**

3. **Methodology**

4. **Results**

5. **Discussion**

6. **Conclusion**

7. **References**

8. **Appendix**

9. **Index**

10. **Summary**

11. **Abstract**

12. **Keywords**

13. **Subject**

14. **Author**

15. **Contact**



# THE AEROGEL LEGACY



**Aerogel** is a gel in which the liquid phase has been replaced by a gas in such a way that the solid network is being retained with only a slight or no shrinkage in the gel. As a result, more than 95% of an aerogel is a gas being trapped with nanoscale holes amongst a mesoporous skeleton riddle. This eventually makes the aerogel ultra-light with lowest thermal conductivity than any solid, when the solid and gas phase are silica and air respectively – appraising Silica Aerogel as the World’s Best Thermal Insulator.

In addition, with proper synthesis, silica aerogel provides acoustic attenuation and is made non-flammable. Aerowder® is AEROGEL+’s eco-friendly silica aerogel and it has been incorporated with innovativeness into AeroGarde® 360 to deliver a 3-in-1 performance.

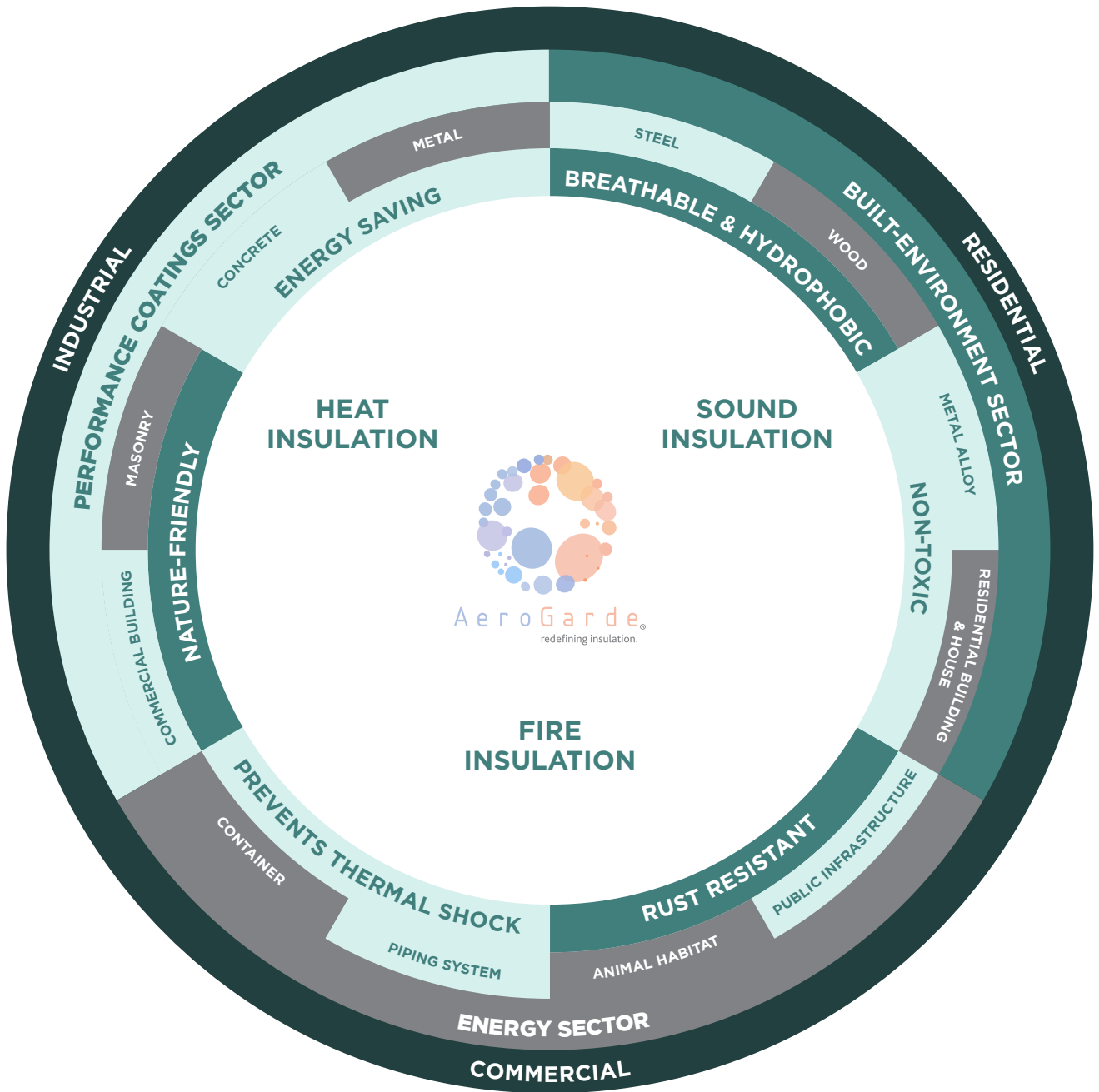


## PHYSICAL DATA

1.  $\rho = 1.00 \text{ g/cm}^3$

2.  $\mu = 0.01 \text{ cm}^2/\text{s}$

# A 360° SAFEGUARD PAINT



# COLOURS - REFLECTIVE THERM LAMINATE

REFLECTIVE THERM LAMINATE IS AVAILABLE IN A RANGE OF COLOURS. THE COLOURS ARE AVAILABLE IN A RANGE OF FINISHES. THE COLOURS ARE AVAILABLE IN A RANGE OF FINISHES.

 REFLECTIVE THERM LAMINATE WHITE	 REFLECTIVE THERM LAMINATE YELLOW	 REFLECTIVE THERM LAMINATE BRIGHT YELLOW	 REFLECTIVE THERM LAMINATE LIGHT YELLOW-GREEN	 REFLECTIVE THERM LAMINATE OLIVE GREEN	 REFLECTIVE THERM LAMINATE LIGHT YELLOW
 REFLECTIVE THERM LAMINATE ORANGE	 REFLECTIVE THERM LAMINATE LIGHT BROWN	 REFLECTIVE THERM LAMINATE BROWN	 REFLECTIVE THERM LAMINATE LIGHT GREY	 REFLECTIVE THERM LAMINATE DARK BROWN	 REFLECTIVE THERM LAMINATE ORANGE-RED
 REFLECTIVE THERM LAMINATE DARK ORANGE	 REFLECTIVE THERM LAMINATE TEAL	 REFLECTIVE THERM LAMINATE DARK GREEN	 REFLECTIVE THERM LAMINATE LIGHT GREEN	 REFLECTIVE THERM LAMINATE GREEN	 REFLECTIVE THERM LAMINATE PINK
 REFLECTIVE THERM LAMINATE DARK BROWN	 REFLECTIVE THERM LAMINATE BLUE	 REFLECTIVE THERM LAMINATE PURPLE	 REFLECTIVE THERM LAMINATE PINK	 REFLECTIVE THERM LAMINATE RED	 REFLECTIVE THERM LAMINATE CYAN
 REFLECTIVE THERM LAMINATE TEAL	 REFLECTIVE THERM LAMINATE TEAL	 REFLECTIVE THERM LAMINATE BLUE	 REFLECTIVE THERM LAMINATE GREY	 REFLECTIVE THERM LAMINATE DARK GREY	 REFLECTIVE THERM LAMINATE LIGHT GREY
 REFLECTIVE THERM LAMINATE DARK BLUE	 REFLECTIVE THERM LAMINATE DARK BLUE	 REFLECTIVE THERM LAMINATE DARK BLUE	 REFLECTIVE THERM LAMINATE LIGHT BLUE		

# **AT AEROGEL+,** **WE ENERGIZE SUSTAINABILITY**

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