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

aerogel+®
energizing sustainability

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

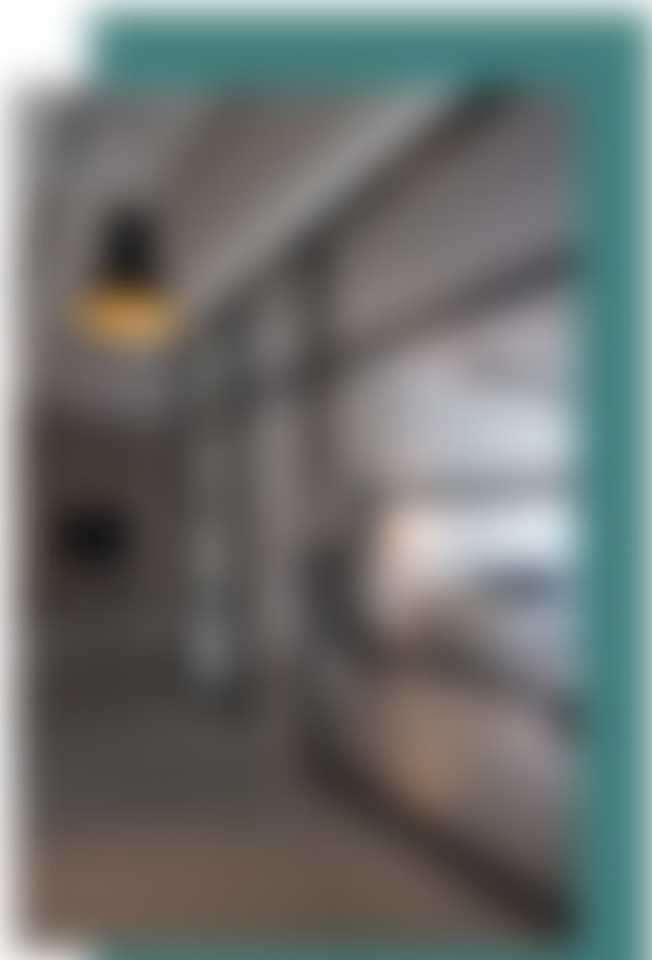
Saves energy

Induces comfort

Nature-friendly

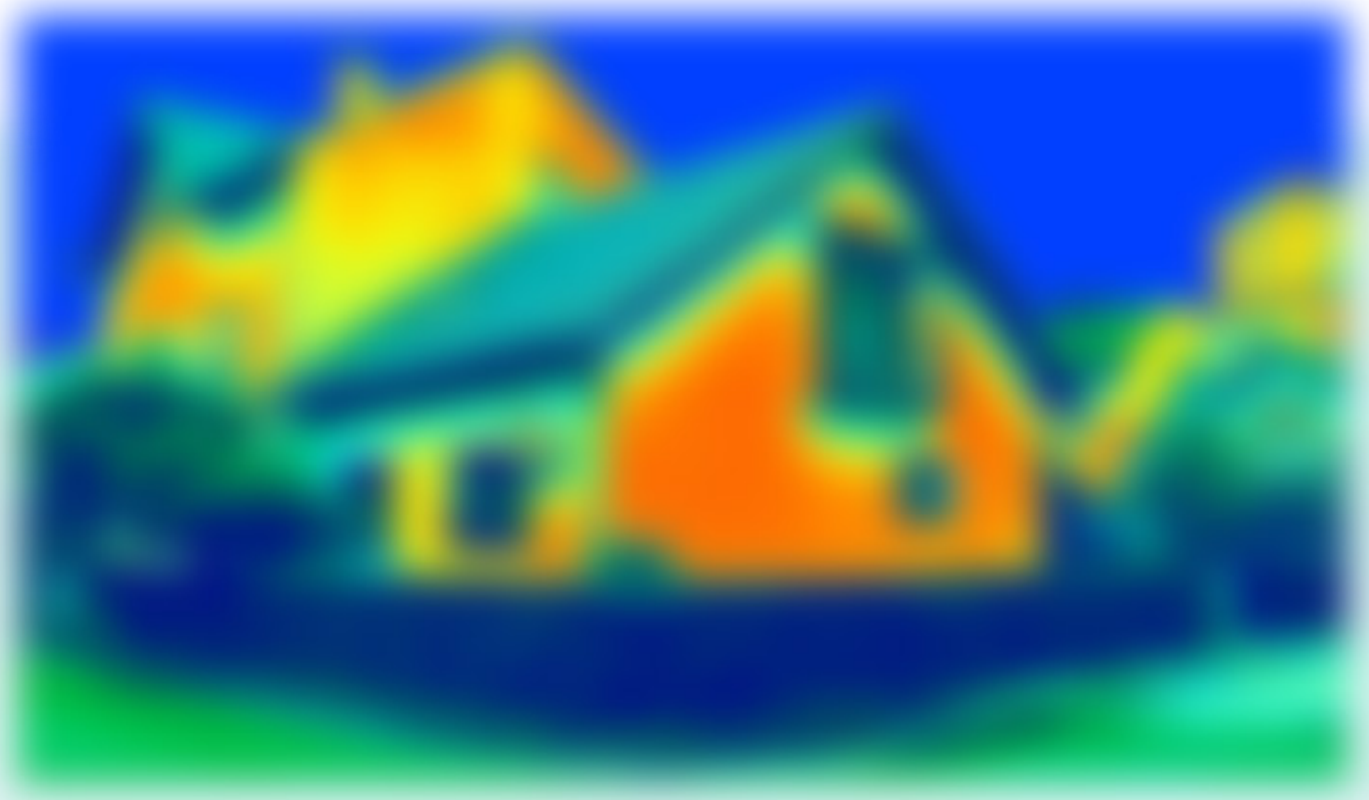
Non - toxic

Inhibits corrosion & thermal shock



Functional INTERIOR & EXTERIOR

DELIVERING PERFORMANCE



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Concept of AI

THE AEROGEL LEGACY

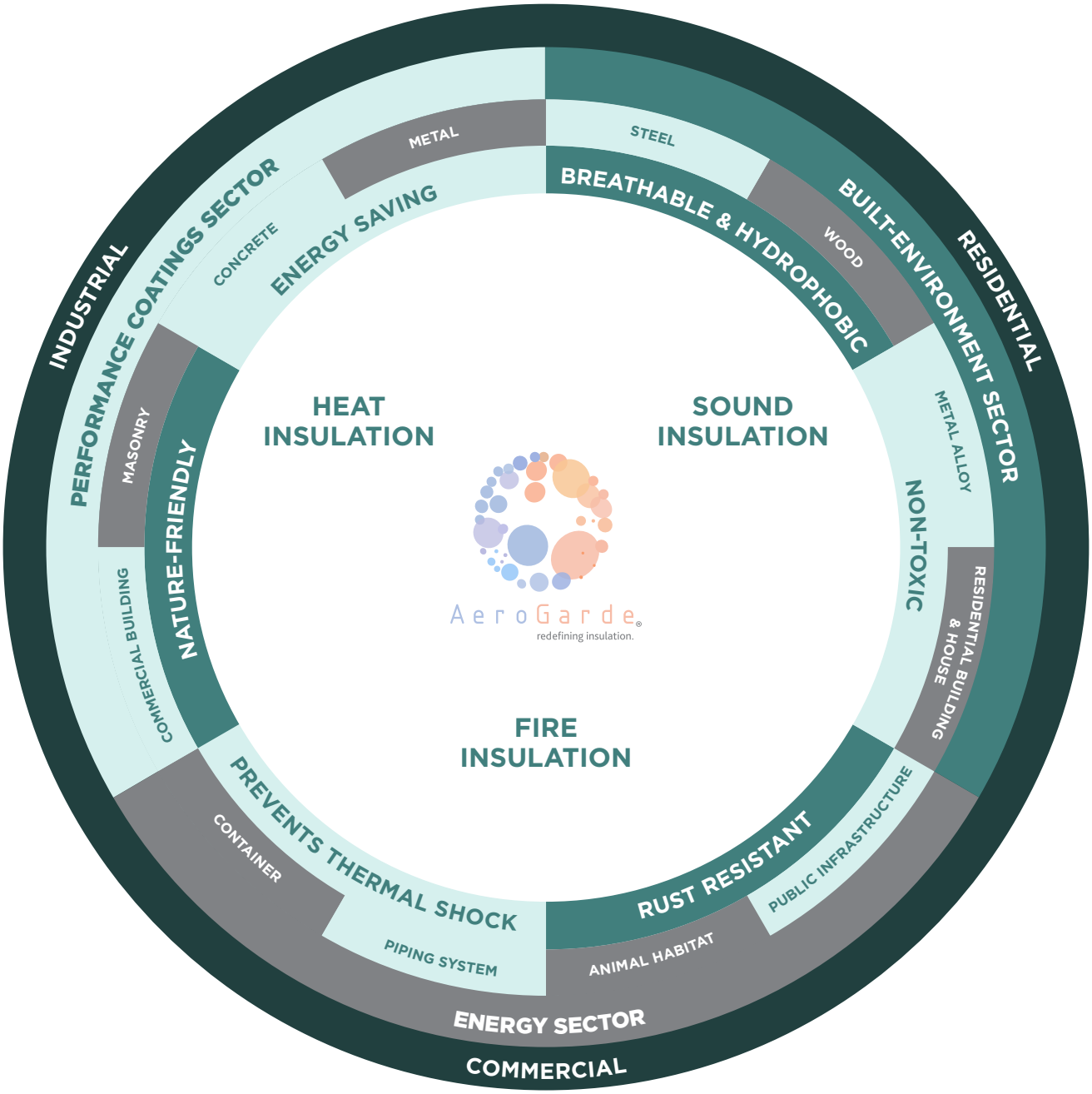
Aerogel is a gel in which the liquid phase has been replaced by a gas in such a way that the solid network is being retained with only a slight or no shrinkage in the gel. As a result, more than 95% of an aerogel is a gas being trapped with nanoscale holes amongst a mesoporous skeleton riddle. This eventually 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

- **Colour**
  Dark Chocolate Brown
  Light Chocolate Brown
- **Odor**
  Fruity
- **Taste**
  Bitter, Astringent, Sour
  Sweet, Astringent
- **Solubility**
  Soluble in Water
  Insoluble in Alcohol
- **Consistency**
  Semi-Solid
  Solid
- **pH**
  5.5 to 6.5
- **Specific Gravity**
  1.0 to 1.2 g/cm³
  1.2 to 1.4 g/cm³
- **Moisture**
  Moisture content of the pulp
  Moisture content of the husk
  Moisture content of the husk and pulp
- **Density**
  1.0 g/cm³
  1.2 g/cm³
- **Viscosity**
  Low
- **Volume**
  Low
  Medium
- **Melting Point**
  Low
  Medium
- **Boiling Point**
  Low
  Medium
- **Specific Heat**
  Low
  Medium
  Low to Medium
- **Thermal Conductivity**
  Low
  Medium
  Low to Medium

A 360° SAFEGUARD PAINT



COLOR REFLECTION CARD

Place a reflection card in the photo to calibrate color. Measure the card's RGB values and use them as the white point for all other measurements.

White	Light yellow	Yellow	Light olive	Olive	Light yellow
Light orange	Light beige	Beige	Light gray	Brown	Light orange
Orange	Light green	Olive green	Light green	Olive green	Light pink
Light brown	Light blue	Blue	Light pink	Red	Light cyan
Light teal	Light green	Teal	Light gray	Brown	Light gray
Dark gray	Dark gray	Dark gray			

AT AEROGEL+,
WE ENERGIZE SUSTAINABILITY

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