



AEROBEL

INNOVATIVE INSULATION TECHNOLOGY



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WE ARE AEROBEL

Innovative
sustainable
insulation
technology
thrivers

_ MISSION

Aerobel has one mission:
"To provide the global market with
innovative & ecological insulation
technology of the highest quality."

_ SERVICES

Vertical integration

All our products originate from a
waste raw material that we
transform in a highly performing
finished product.

Superior products

Our products outperform on
technical, ecological, operational
and economical field to create
better solutions for the industry.

Trustworthy distribution network

We only work with authorized
distributors that are highly
experienced and trained
in our field.

PRODUCTS

_ AeroGel

Open-porous nanostructured
solid materials that are the
lightest and best solid thermal
insulators in the world.

_ AeroBinder

Gel-like binder that significantly
and homogeneously improves
the thermomechanical
properties of the Aeromix.

_ AeroMix

Composite insulation layer that
consists of a mixture of 2 or 3
different components.
It is known in the industry as the
best insulating EPS flooring
system in the world.

CEO STATEMENT

Sam Chartouni



We create high quality materials for innovative
sustainable insulation solutions that ignite current
and future generations to thrive.



AERO GEL

Lightest and
best insulation
solid material
in the
world



non-
flammable



super
hydrophobic



acoustic
insulator



80-120 kg/m³



< 15 mW/m-K

_ ABOUT

AeroGels are **open-porous nanostructured solid materials** and known to be the lightest and best **solid thermal insulators** in the world.

First-of-its-kind **vertically integrated** patented production process invented by Aerobel.

_ ADVANTAGES



Available in different
particle sizes



Compositable with other
insulation materials

AERO BINDER

Improvement
of
thermo-
mechanical
properties



_ ABOUT

AeroBinder is a **gel-like additive** that significantly and homogeneously improves the thermomechanical properties of the AeroMix.

This is achieved through a **uniquely intertwined porous 3D microstructure** that is homogeneously and strongly bound to the matrix Hydrogen bonds.

Due to the **improved homogeneity**, the pumpability is also optimized. AeroBinder is put into the mixing unit on site.

_ ADVANTAGES

- ✓ Improved strength in the early stages
- ✓ Increased workability
- ✓ Improved flow and stability of the aggregates
- ✓ Reduced bleeding, segregation and cracks



PRODUCT VERSIONS



AERO MIX SHP

_ ABOUT

The best **insulating EPS cement bonded floor insulation system** in the world.

It has an insulation value of 0,037 W/mK and is certified by European Technical Assessment.

This composite **insulation layer** consists of a **mixture of 3 different components**:



 0,037 W/m²M

 19 dB

 137 kPa at 6,6%

 93 kg/m³

 950 m²/day

 80 kg/m³

 3-5 days

_ ADVANTAGES

- ✓ Ideal for underfloor heating and tacker situations
- ✓ Easy to apply and level
- ✓ Ecological, low cement consumption



SHP -R

New version with **recycled expanded polystyrene beads**

to strive for a world without waste.

- ✓ Efficient and longer use of raw materials
- ✓ Contribute to solve and reduce waste problems

SHP -STRONG

New version with **steamed expanded polystyrene beads**

for enhanced compressive strength.

- ✓ More robust surface enabling thinner screeds
- ✓ Can be poured as alternative to void former or high strength insulation

SHP -STRONG -R

New version with **recycled expanded polystyrene beads**

- ✓ Reduce the costs of the raw material
- ✓ Positive effect on climate and environment



AERO MIX FPU

_ ABOUT

The best insulating EPS **sprayed** floor insulation system in the world, **free from cement**.

It has an insulation value of 0,032 W/mK and is certified by European Technical Assessment.

This composite **insulation layer** consists of a **mixture of 2 different components**:

 0,032 W/m²M

 >19 dB

 135 kPa at 6.6%

 28 kg/m³

 750 m²/day

 0 kg/m³

 3-5 days

EPS

AEROBINDER
2.0



_ ADVANTAGES

- ✓ Ecological, no use of cement
- ✓ No added water
- ✓ 100% recyclable
- ✓ Safe and toxic free installation

_ ABOUT

The best insulating EPS cement bonded floor insulation system in the world **suitable for dry systems**.

It has an insulation value of 0,038 W/mK and is certified by European Technical Assessment.

This composite **insulation layer** consists of a **mixture of 3 different components**:

EPS

CEMENT
CEM I 52.5 N/R

AEROBINDER
3.0

_ ADVANTAGES

- ✓ Installed as a regular screed
- ✓ Low water content
- ✓ Low entry level cost, no liquid screed pump needed

AERO MIX DRY

0,038 W/m²M 

t.b.d. 

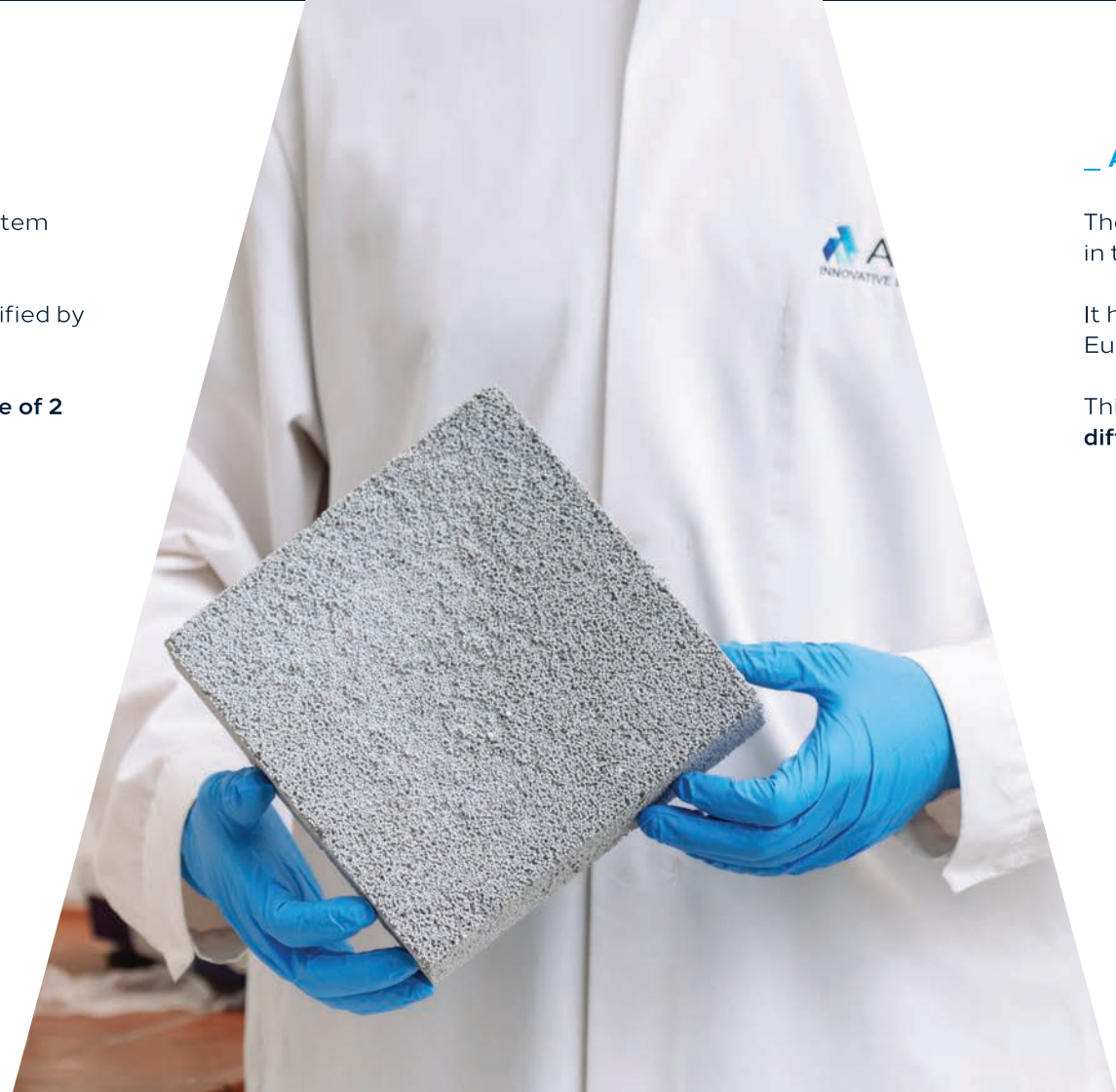
t.b.d. 

86 kg/m³ 

650 m²/day 








80 kg/m³ 

3-5 days 





PRODUCT COMPARISON

- thermal conductivity 
- sound reduction 
- compressive strenght 
- density 
- installation 
- carbon dioxide 
- drying time/accessibility 

- 
- 
- 
- 
- 
- 

Workability

Pumpability

Swelling

CE UK

EOTA

Thermal Lightweight Aggregate	AeroMix SHP	AeroMix FPU	AeroMix DRY
0,045 W/mK	0,037 W/mK	0,032 W/mK	0,038 W/mK
n.d.	>19 dB	>19 dB	t.b.d.
135 kg/m ³	80 kg/m ³	0 kg/m ³	80 kg/m ³
800 m ² /day	950 m ² /day	750 m ² /day	650 m ² /day
110 kPa at 10%	137 kPa at 6,6%	135 kPa at 6,6%	t.b.d.
145 kg/m ³	93 kg/m ³	28 kg/m ³	86 kg/m ³
problematic	improved	improved	improved
problematic	improved	improved	improved
✓	✗	✗	✗
✗	✓	✓	✓
✗	✓	✓	✓

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