



CHEMA FOAM

BUILD YOUR DREAM



ABOUT US

Chema foam group companies was founded at 1987, by General Engineer Atef Al-Sawey researches in building materials.



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Academy of Scientific Research & Technology
Product patented certificate 020865 for Chema Block®

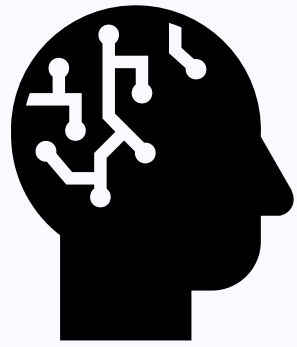


King Abdullah Bin Al Hussein International Award 2001 in technology and applied sciences for Chema Block® innovation



ISO 9001 certificate 2015 for Production of Expansion and Extrude polystyrene foam products

CHEMA Ultra Light

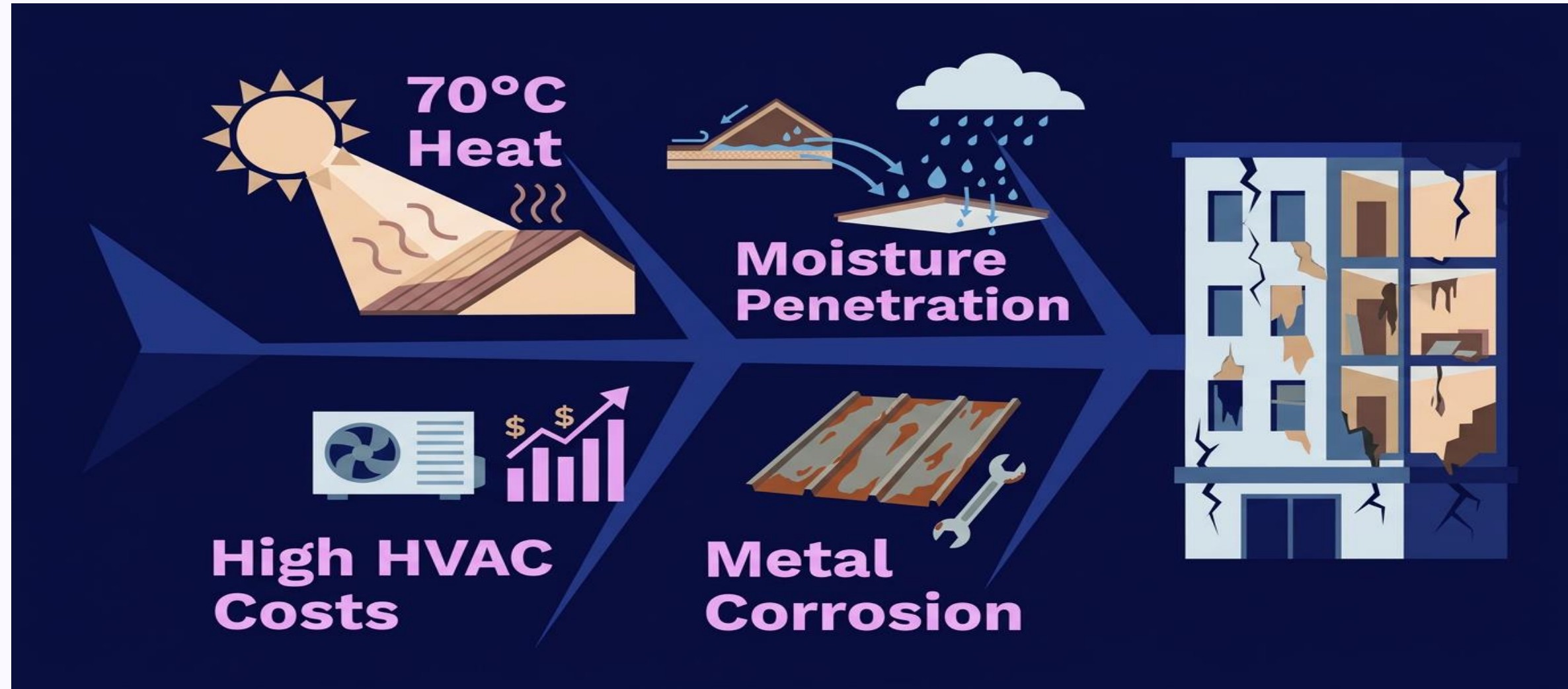


Next Generation Roof Protection

Smart insulation, waterproofing, and energy efficiency in one coating system.



Common Roof Problems



Corrosion

Metal roof degradation



High Temperature

Surface temperatures up to 70°C



Water Leakage

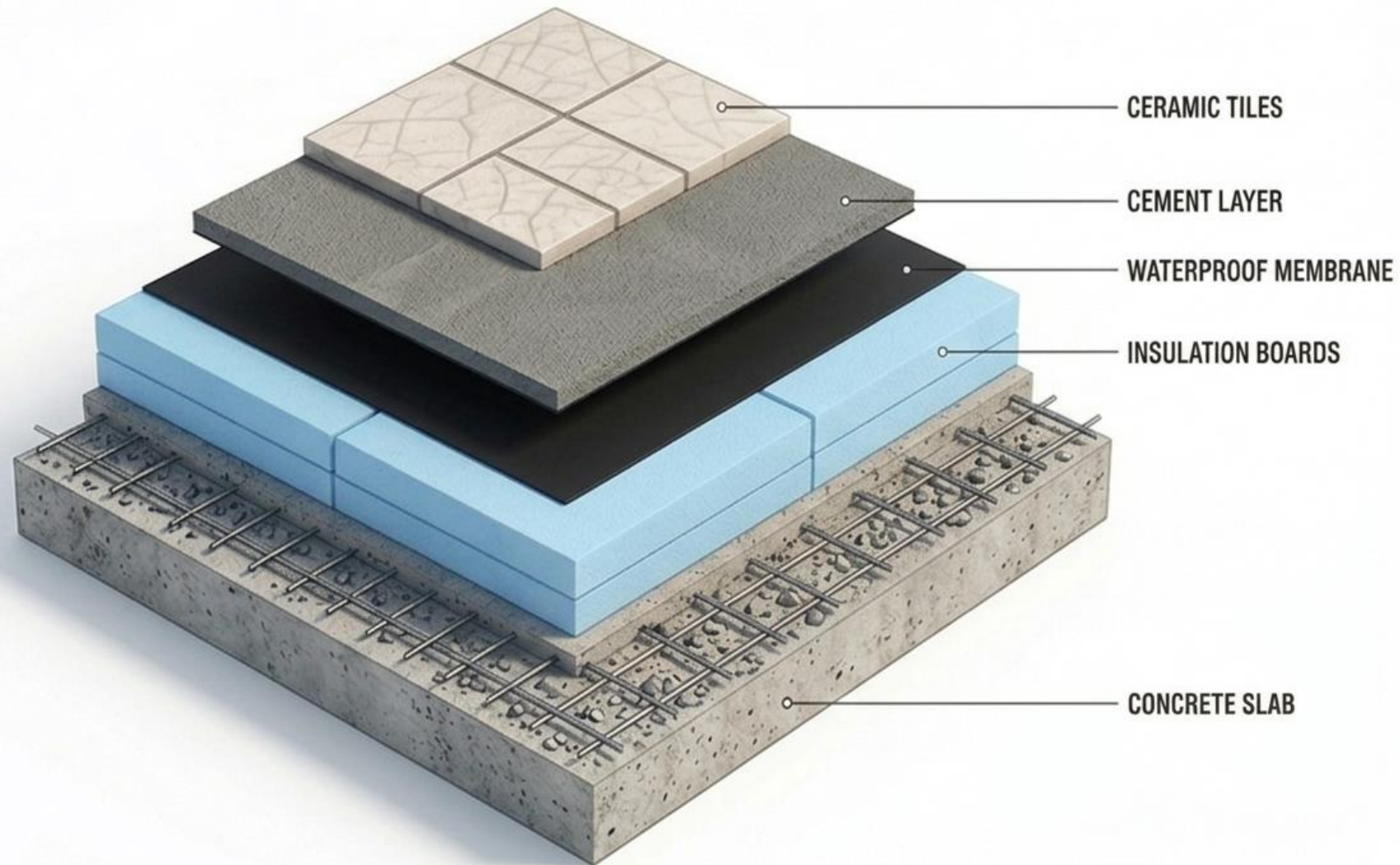
Moisture infiltration and damage



Energy Costs

Excessive cooling consumption

Traditional Solutions



01

Insulation Boards

Layered installation adds weight and complexity

02

Waterproof Membranes

Separate system requires multiple contractors

03

Finishing layer

Additional layer increases material costs

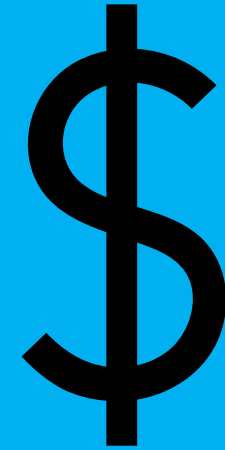
The Traditional Approach: Complexity & Cost





Installation Time Challenges





**Financial
Burden
issues**





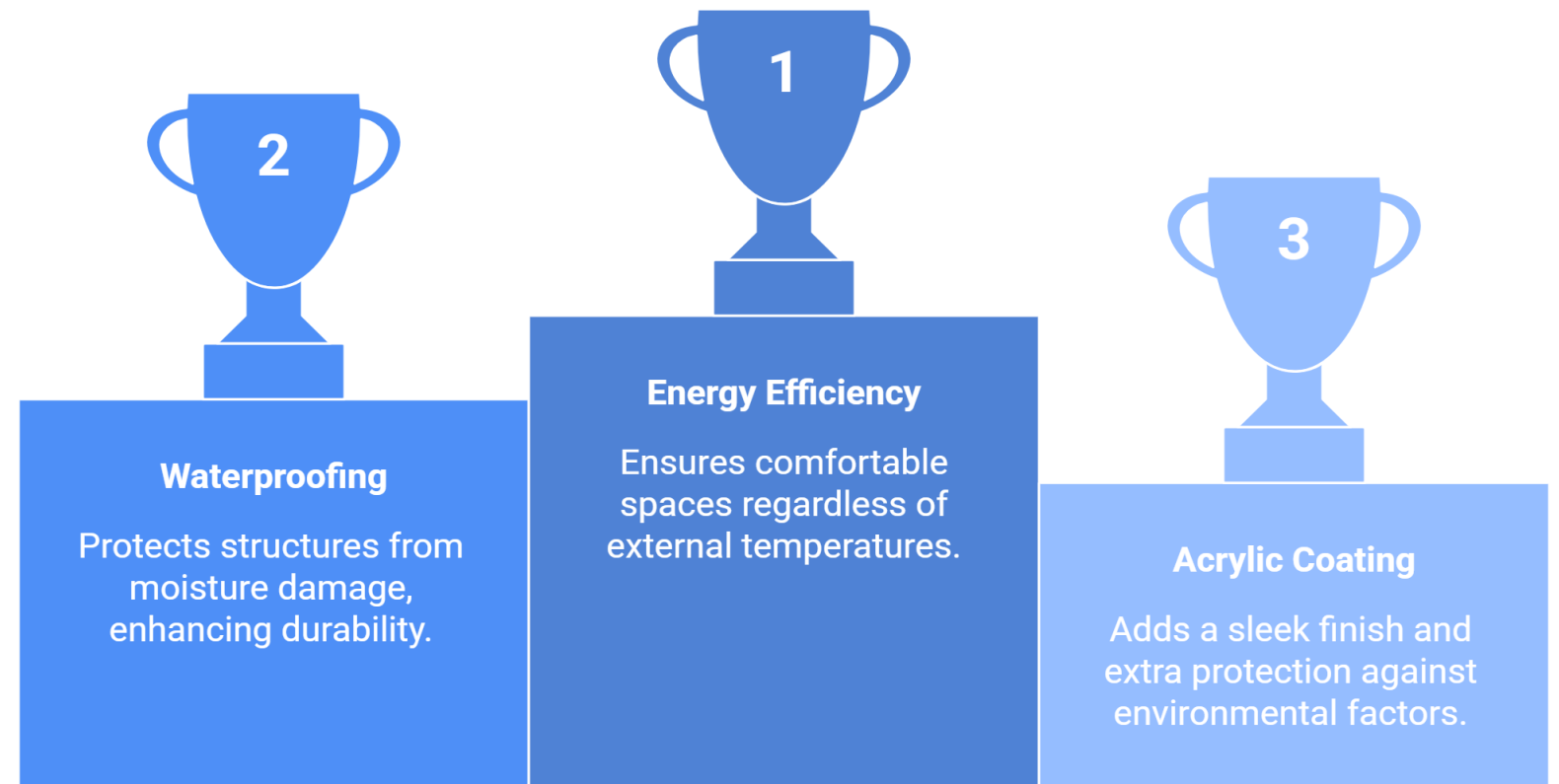
**Structural
Impact**
Added dead load





**Maintenance
Issues**
Multiple failure points

3*1 solution



A revolution in the world of Insulation

Hybrid Insulation Coating



Foam Insulation Structure



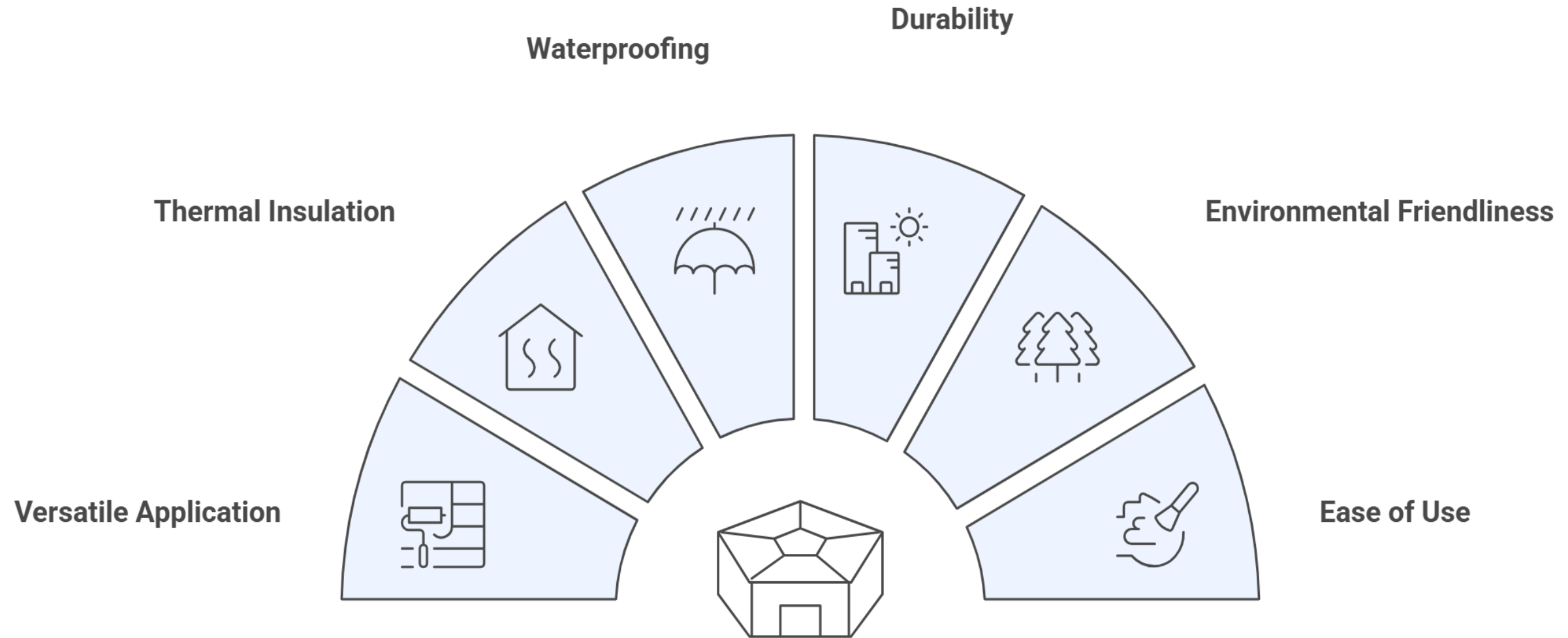
Polymer Waterproofing



Acrylic Coating



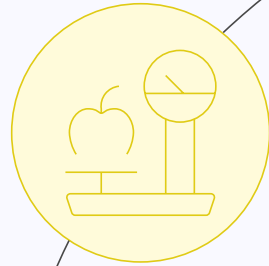
Chema Ultra-Light's Core Features



Material Properties

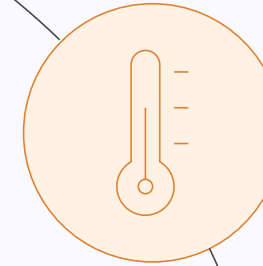
Density

The density of the material is 0.80 kg/L.



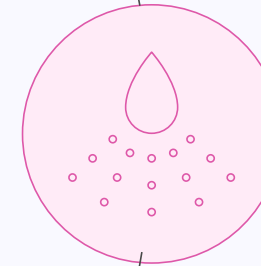
Thermal Conductivity

The thermal conductivity is 0.062 W/m·K.



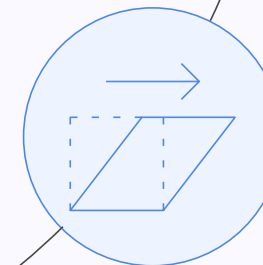
Water Permeability

The water permeability is 0.06 g/m²·h.



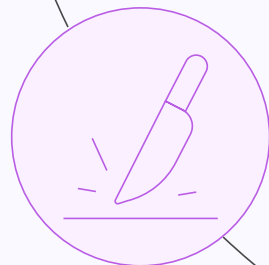
Elongation

The elongation is 100%.



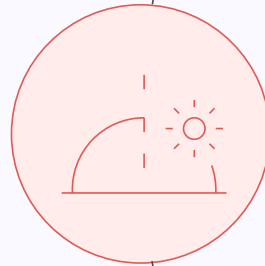
Scratch Resistance

The scratch resistance is 2H.



Solar Reflectance

The solar reflectance index is 92.



Certified Performance



HBRC Certified

Housing and Building National
Research Center



Lab Validation

Complete performance testing



Documented Results

Published technical data



Thermal Insulation Performance

Low Thermal Conductivity

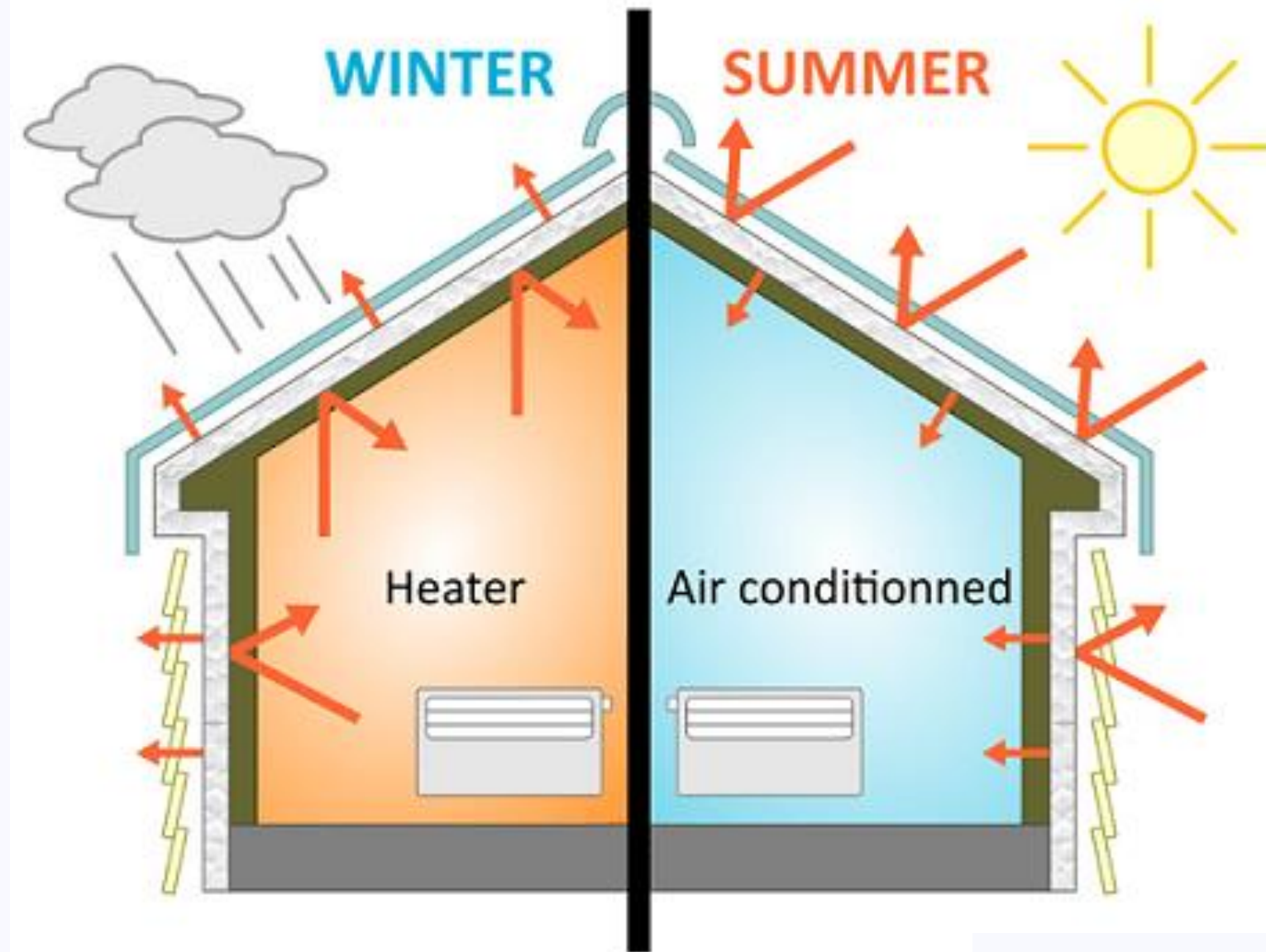
0.062 W/m·K value significantly reduces heat transfer

Heat Flow Control

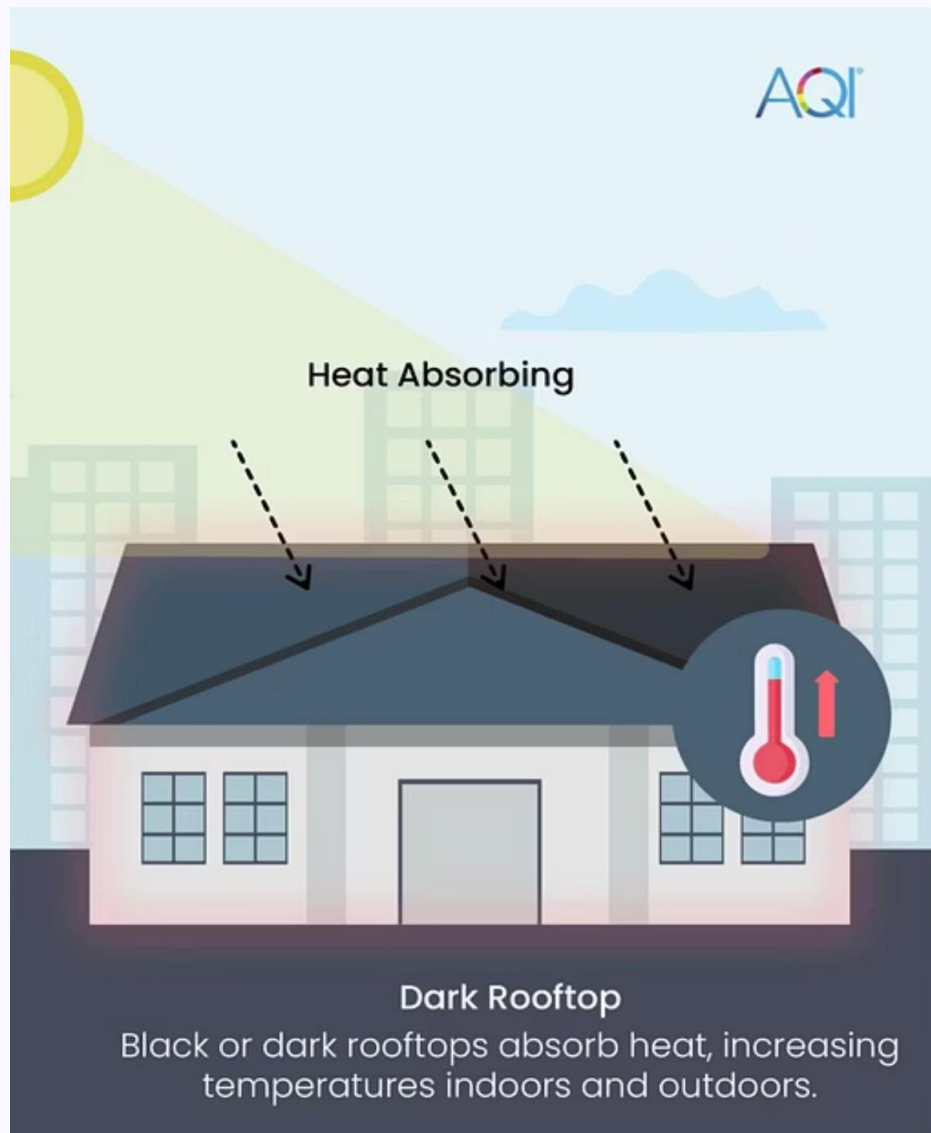
Insulating layer blocks upward heat movement

Temperature Reduction

Lower interior temperatures reduce HVAC load

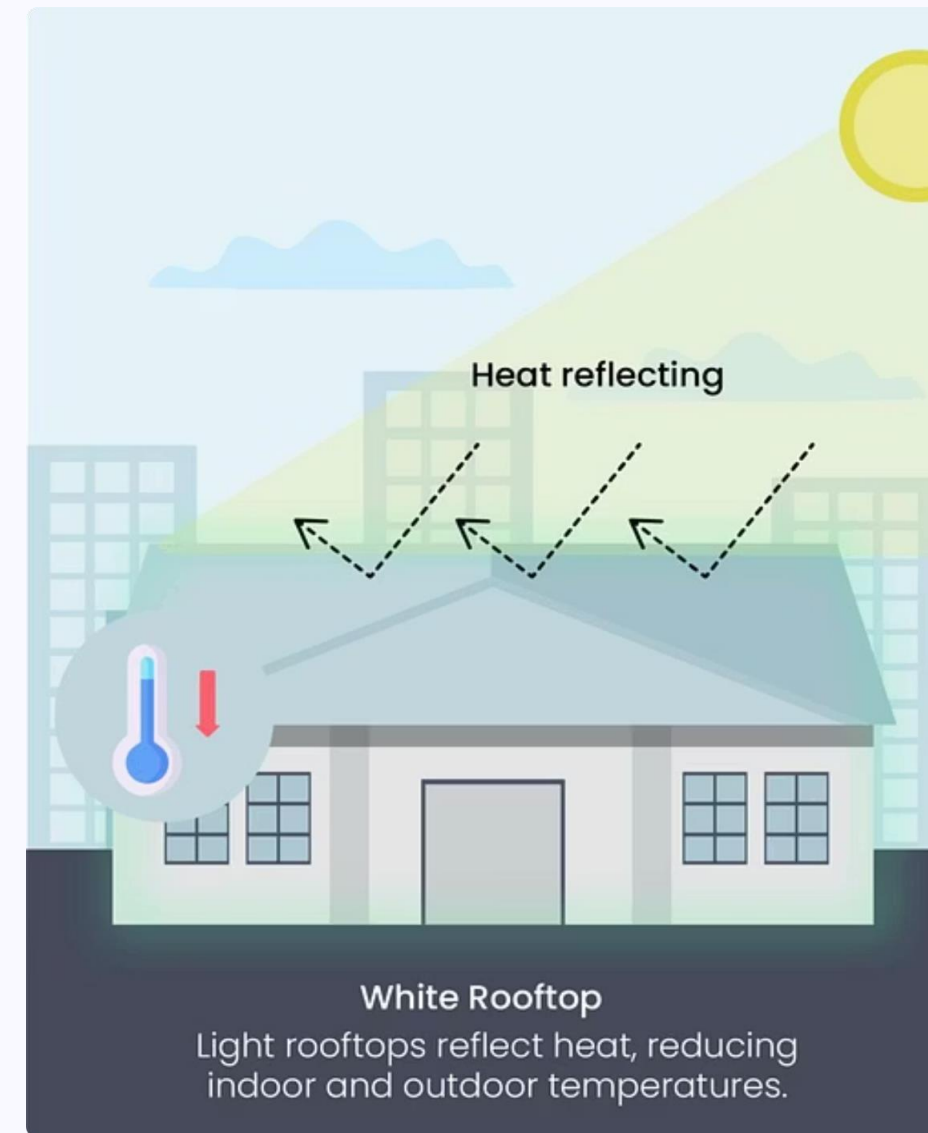


Cool Roof Effect



Conventional Roof

Dark surfaces absorb 70-90% solar energy



Ultra Light Coating

Reflects 85-92% solar radiation

High Solar Reflectance Index (SRI) reduces surface temperature by 25-30°C compared to traditional roofing.

Easy Methods of application

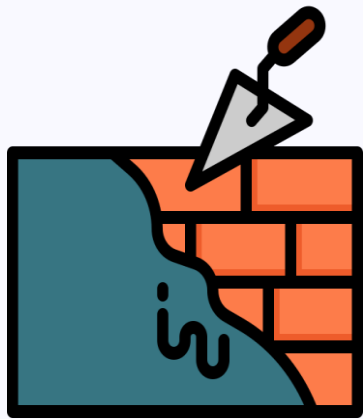


Spray gun

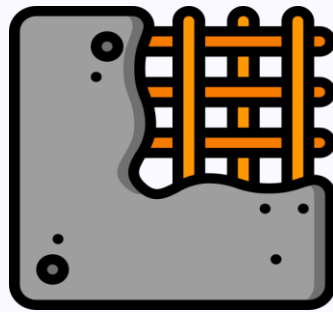


Trowel & Brush

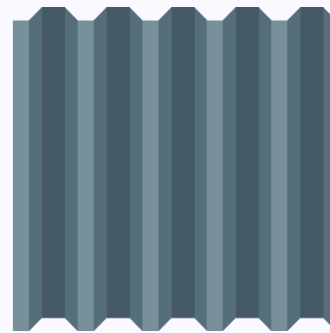
Area of Use



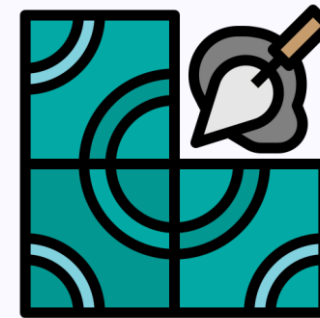
Brick walls



Concrete
surfaces



Metal
surfaces

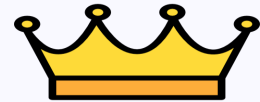


Roof tiles



Wooden
surfaces

Which material or system should be chosen for the project?



ULTRA – LIGHT

Polyurea

Polyurethane

Epoxy

 **Cost / m2**

265-320 LE

800-1500 LE

400-700 LE

350-500 LE

 **Operating Rate / day**

200-300 M2

400-500 M2

100-200 M2

80-150 M2

 **Equipment**

Roll – Trowel - Spray

Special spray gun 

Roll – spray

Roll

 **Lifespan**

10 years

20 years

10 years

7 years

 **Flexibility**

HIGH

VERY HIGH

HIGH

LOW

 **Waterproofing**

EXCELLENT

EXCELLENT

EXCELLENT

GOOD

 **UV resistance**

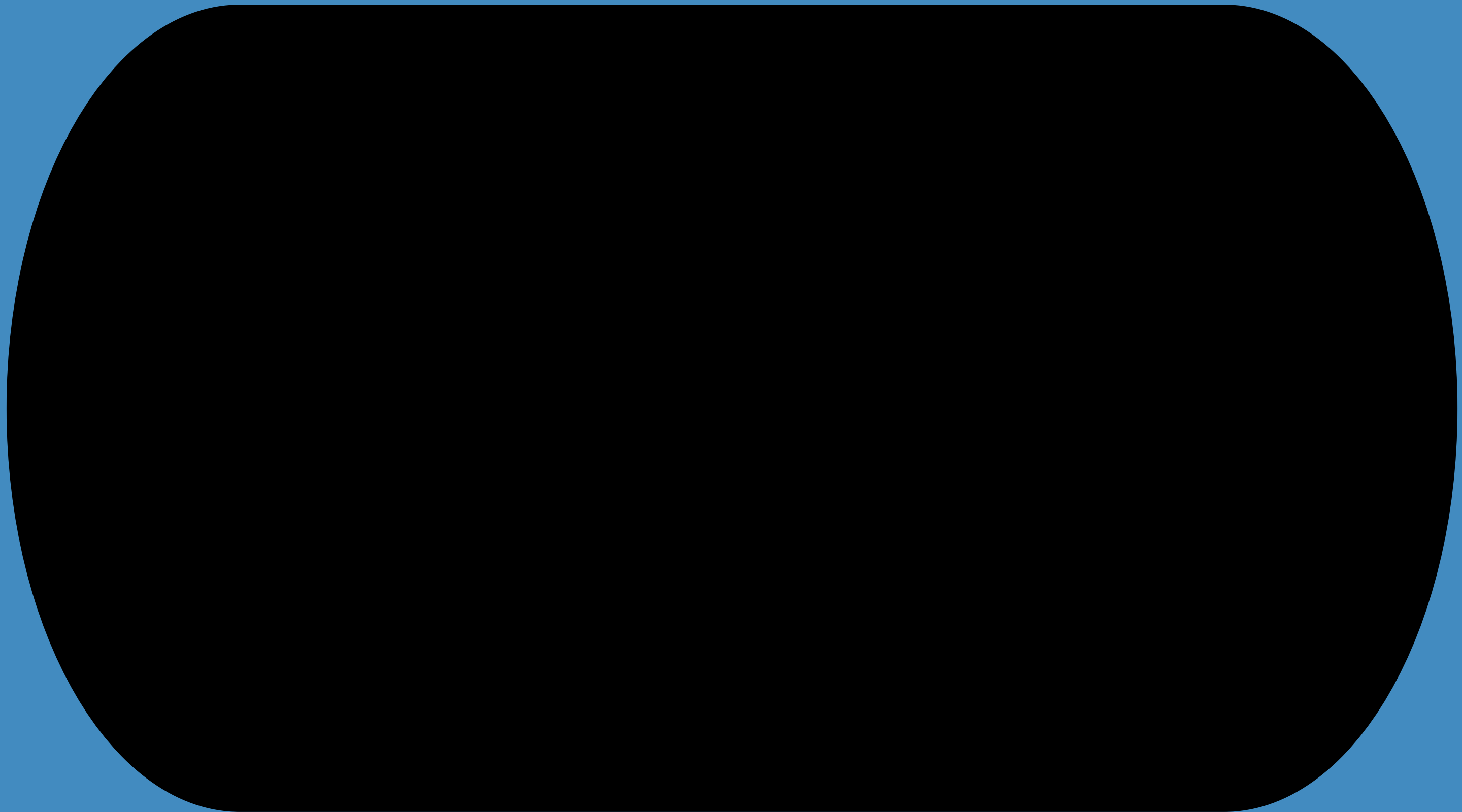
EXCELLENT 

EXCELLENT 

EXCELLENT

WEAK







ULTRA – LIGHT



EFFICENCY

VS



COST



CHEMA FOAM

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