### **O1INDRESMAT** is a chemical startup based in Barcelona (ES) and Geleen (NL) that redefined the envelope of buildings and houses to increase their energy-

efficiency and sustainability while reducing their CO2 emissions.

With unique know-how in bio-Polyurethane chemistry, INDRESMAT addresses 100% of the thermal loss problem in constructions through 2 disruptive circular products with low C-Footprint: KLIMA-PUR frames (for windows & doors) & SAFE-PUR insulation foams (for walls, roof and floor).



# O2 WHAT IS OUR VISION?

Our vision is to create a big environmental impact on the building industry promoting energy-efficiency, resourceefficiency, and circularity of the envelope materials to commit the Sustainable Development Goals (SGD's) and EU Green Deal policies.

### HOW DO WE DO IT?



**RESOURCE** EFFICIENCY

#### CIRCULARITY



Reduction of CO2 emissions

Decrease of C-Footprint Re-use at end-of-life

# O3 INNOVATION AND R&D LINES

The key differential value of our company is our exclusive know-how, as well as extensive expertise in different areas of our team, involving disruptive innovations in the following innovation fields:

### Line 1



### Line 2

Product design based on innovative Polyurethane materials.

## Line 3



Technology engineering for manufacturing and recycling Polyurethane products.



# INDRESMAT

# **04** PRODUCTS

KLIMA-PUR frames & SAFE-PUR foams are high-performance and sustainable materials designed to fulfil customer's needs in terms of thermal and acoustic comfort, as well as materials quality and design.



is a new type of carpentry made from Polyurethane foam (PUR). Similar to wooden frames and profiles, KLIMA-PUR are solid frames & profiles with superior thermal and acoustic barrier properties.

The concept of KLIMA-PUR is to provide higher performance and sustainability to the window & door market by using PUR as single structural and functional material, thus avoiding difficult-to-recycle composite materials while decreasing their C-Footprint, being enhanced by the largest bio-sourced raw materials production capacity of all bioplastics.



KLIMA-PUR profiles & frames have been designed for highly energy-efficient windows & doors, offering superior performance in terms of energy-saving and comfort.

KLIMA-PUR window and doors are optimal for cold, humid, and sea-coast areas due to the wide range of working temperatures (-40 to +70°C), excellent chemical resistance and superior dimensional stability.

Our goal is to disrupt the window & door industry towards a greener product by using bioPUR (biobased PUR), being this material is a strong competitor in the future scenario, where energy performance, durability, and sustainability are the most important drivers in window & door market in coming years.



# SAFE-PUR

is a new type of Polyurethane insulation foam with highly improved fire safety, increased durability, and superior weathering resistance to be used in indoor and outdoor applications.

The concept of SAFE-PUR is to provide higher performance, sustainability, and safety to the construction market by using bioPUR as single thermal, acoustic, and moisture barrier material, thus avoiding difficult-to-recycle multilayer materials used nowadays in the construction market, being SAFE-PUR a promising foam that can be used as in conventional PUR products (spray, injection, sheet, panel, etc).



SAFE-PUR foams can be sprayed, injected and used as sheets or sandwich panels for insulation purposes, being optimal for insulating roofs, walls and floating floors, especially for extreme climate areas where small thickness is required having a broad range of working temperatures (-40 to +70°C). The targeted market for SAFE-PUR foams is the residential segment, mainly for energy renovation and insulation, as well as impermeabilization in renovation activities.

Our goal is to revert the domination of mineral-based insulation systems towards a greener product by using bio-PUR (biobased PUR). This material is a strong competitor in the future scenario, where energy performance, safety and sustainability are the most important drivers for insulation market in the coming years.

# **09** KEY ADVANTAGES

## KLIMA-PUR

No thermal bridges Lowest conductivity (0.80 W/m.K) Acoustic insulation (+30%) Durability (35-45 years) Up to 50% biobased (80% in the future) C-Footprint (165 KgCO2/m2) Easy recycling Any color & finishing



## SAFE-PUR



Lower flammability (-50%) Slower fire propagation (-20%) Reduced smoke emission (-70%) Decreased fume toxicity (-90%) Extended shelflife (>60 years) Indoor and outdoor applications Up to 70-80% biobased Easy to separate & recycle

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# INFRASTRUCTURES

INDRESMAT's headquarters and pilot plant are based in Barcelona (Spain), having also an international office at Brightlands Chemelot Campus in Geleen (The Netherlands).









International Office Geleen (Limburg, NETHERLANDS)



Pablo (CEO) Polymer Chemist Vision & Strategy

Ángela (COO) Electronic Engineer Company Organitazion

Vincent (CBO) PhD Chemist Business Develepment Juan (CAO) PhD. Architect *Customer Relationhip* 

**Ulises (CFO)** PhD Economist *Financial Management* 

Ismael (CTO) Industrial Designer Product & Technology



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### CONTACT

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