KASTAMONU

KASTAMONU Türkiye | KASTAMONU BULGARIA Bulgaristan | KASTAMONU ROMANIA Romanya | NATRON HAYAT Bosna Hersek KASTAMONU INTEGRATED Rusya-Tataristan | KASTAMONU USA A.B.D. | KASTAMONU ITALIA Italya







Kastamonu Entegre 1969 Wood Industry Group



Hayat Kimya 1986 Consumer Group



1st 4th 6th in Turkey in Europe in the world in the wood-based panel industry



ONE OF THE LARGEST MANUFACTURERS

in the world with each of its main product groups; namely MDF, particle board, laminate flooring, and door skin!







OVERVIEW



Project Portfolyo





R&D Priorities



P1	To develop resins for wood based panels P1-A Development of low FA resins P1-B Development of No-Added Formaldehyde Resins – Sustainable Resins P1-C Functional Resins
!	To develop paper impregnation resins and additives
P2	P2-A Resin development P2-B Additive development
	P2-C Paper
P3	To Develop Smart Surfaces and Functional Surfaces
P4	To Develop wood based composites, alternative fiber sources
-	
P5	Valorisation of wastes and other projects.

R&D Infrastructure





CHARACTERIZATION LAB.

Chemical characterization and benchmark studies

GENERAL CHEMISTRY AND SYNTHESIS LAB

IMPREGNATION LAB



WOOD COMPOSITE

Prototype board production

Resin synthesis and performance analysis on pilot scale Impregnated resin synthesis and applications in lab scale

R&D Infrastructure









TENSOR 37

DSC

By determining the chemical change of the resins between (-50) -600 ° C temperatures, we can comment on the behavior of the resins in the production line by using ppm amounts of material.

RHEOMETER

It is used to determine the changing flow behavior of resins and coatings under the influence of different parameters and to increase production line efficiency / develop value-added products by taking advantage of these effects.

CONTACT ANGLE

It is used to determine the surface energies of materials in order to adapt new surface technologies to wooden or laminated surfaces and to design functional coatings suitable for these surfaces.

FTIR

Due to FTIR, where we can view the structural bonds of materials, we can analyze reverse engineering studies and competitor analysis analytically.





PROJECT IDEA MoreWood







Increasing Wood Amount With Wood Based Panels as Sustainable Sourced and Recyclable Structural Elements for <u>Green and Zero Emission Buildings</u>



Why MoreWood?

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In this project our main goal is to provide viable wood based alternatives in order to replace more elements in a building with more wood.



Adapted from 2019 Global Status Report, Global Alliance for Building and Construction (GABC) and Architecture 2030.

• The building and construction sector has a vital role to play in eliminating carbon, as it is responsible for approximately 40% of global carbon emissions.

sector and approximately %40-50 of the CO₂ released into the atmosphere comes from the concrete and steel. Petrochemical based materials Mineral based insulation Plastic solutions

It is known that 40% of the world's raw material is used in the construction

Steel doors



Non recyclable waste

Depletion of Resources

Climate change

https://carbonleadershipforum.org/the-carbon-challenge/

What We Offer?

Wood is the only material capable of reducing carbon dioxide emissions and thus play a vital role in climate change mitigaiton



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new bio-based resins for wood industry

new sustainable panels from new agro-fibres.

new sustainable panels from wood fibres for different purposes.



THANK YOU FOR LISTENING

Please Contact us: gulsah.balamut@keas.com.tr salise.oktay@keas.com.tr