REC IN COMP

INTERNATIONAL

Co-funded by the COSME programme of the European Union

Composite materials with high temperature resistance 300°C-1000°C having a cementitious matrix using industrial residues

MOSS composites is an SME located in belgium

- produces composite products
- develops composite materials together with VUB, material physics and KUL MTM
- Participates in the SIM researchprogram Mares "MAterials from solid and liquid industrial process Residues" and SBO GHRANTE
- General information about our company
  please visit : https://www.moss-composites.com

SINGAPORE

MOSS composites

REC4N COMP

INTERNATIONAL

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Performing up to the task energy-effective and environmentally friendly materials using industrial residues

Development of new energy-effective and environmentally friendly materials using industrial residues,copper slag, GGBFS(,Ground-granulated blast-furnace), recycled glass, carbon fibre ,..
Development of a composite material with an inorganic cementitious matrix.
Development of Fiber(Virgin and recycled fiber) reinforced cementitious materials capable of resisting impact , high temperatures and fire resistance
Development of composite materialswith an inorganic cementitious matrix, a matrix 4- 10.. cheaper then high end epoxy .. Polyimide resins

We want to turn these huge amounts of industrial residues :fayalite slag generated for the last decades in e.g. copper production , GGBFS,milled glass, carbon fibre ,(windmillblades)..into

- Useful construction materials
  eg , flax , jutte milled glass, milled carbon fibre , felt
- Advanced composites for high end application as an economical and at least equally performing alternative for existing expensive ceramic composite solutions
  eg Astroquartz radomes hypersonic flight , Nextel thermalmotorshields, batterycells thermal seperators

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WHAT WE NEED

- Improving maturity and robustness of matrix precursor supply chain of industrial residues . standardization , interchangeability of suppliers ,..

- Further development characterization technology of these materials at very high temperatures and extreme conditions , space orbit,impact ,blast, fire ,..

- Further development and research in matrix and fiber-matrix combinations

- Grants for demonstrator development for astroquartz radomes and Nextel motorshields as show case for the high end capabilities of these materials .

- Pilot production lines to show possibility of industrialization of the technology

- New material technologies are slow to adapt , known to destroy capital and thus carry high market risc :SME need co-venture capital and/or 100% Grants .