

Industrial Residues for Smart Fire-resistant Photocatalytic Components



The IDEAL's objective is the enhancement of a lateral flow of industrial residues through geopolymerization, for the realization of an innovative product, with economic and performance superior characteristics to the comparable products currently on the market, aimed to the construction sector. The material is applicable in fire protection and air fresh applications. The markets for fire resistant and photocatalytic components represent values of €25 and €10 billion, respectively



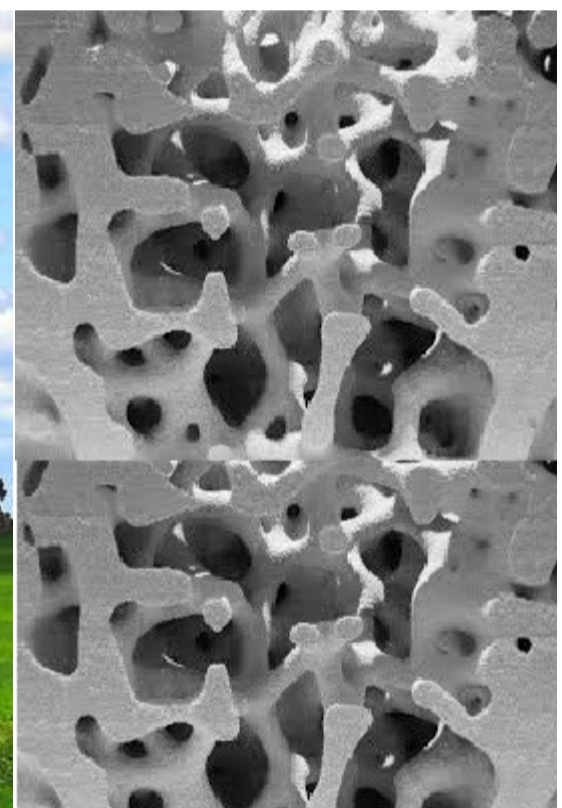
Development of fire resistant materials for the construction sector



Transformation through geopolymerization of industrial residue into geopolymer construction products



Functionalization with integrated photocatalytic coatings for disinfecting and air cleaning properties



Pilot production of boards with 3D-printing (innovative cutting-edge additive manufacturing approach) to substantially reduce cost

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