



Abstract

A Polish company developed the technology of production of new polystyrene pellets with use of building waste. Technology combines the light polystyrene pellets with an additive containing an anionic solution (surface active, PH neutral) with building waste (polystyrene waste, plastics, rubber). The product can be used inside and outside in the residential and industrial building industry. Partners are expected for commercial agreement with technical assistance.

Description

A Polish company developed the technology of production of new polystyrene pellets with use of building waste.

The new product will be characterized by the wide range of implementation possibilities.

The various moulds can be filled and left to the setting in order to obtain the different shapes (e.g. while production of hollow bricks or pipes jackets, prefabrication of partitions, etc).

The product can be also used inside and outside in the residential and industrial building industry (floor foundations, thermal insulation of ceilings, roofs, terraces, ledge filling, canals).

The pellets can be also dry mixed and packaged in the bags and in that form can be offered to the individual clients as a ready product to mix with water.

Innovations and advantages of the offer

The innovativeness of the technology depends on using of building waste - polystyrene waste, plastics, rubber - even to 30% of recycled waste in the end product.

Simultaneously, the technology allows for keeping the

high quantity parameters of obtained polystyrenes including:

- high thermal insularity on level of 0,07-0,1 W/(m·K) of thermal conductivity (λ)
- low specific weight on level of 300 kg/m³
- keeping the easiness and simplicity of the product using

Moreover, the implementation of the technology guarantees:

- improvement of the foundation stability through the slab faulting elimination of the insulating boards
- improvement of the barrier thermal insularity through the bridges elimination

For further information (including IPR status)

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