

Advanced EPS-lightweight concrete: a technological breakthrough in service of the construction industry

TECHNOLOGY/PRODUCT OVERVIEW

"Additive composition for the production of lightweight concrete containing polystyrene beads, a method for producing the composition, and its application" is a brand new innovation that is a response to the need for environmentally conscious, cost-effective, and technologically advanced building materials. The product and technology is primarily aimed at manufacturers of concrete elements, transport concrete distributors, construction material distributors, and additive producers. The company is seeking partnerships with entities interested in promoting sustainable construction practices and reducing the environmental impact of the construction industry.

TECHNOLOGY/PRODUCT FEATURES, SPECIFICATIONS AND ADVANTAGES

The ICL-K1 additive composition revolutionizes lightweight concrete production by enhancing its strength, durability, thermal insulation, and fire resistance. It is unique in its ability to incorporate expanded polystyrene (EPS) beads into the concrete, making it suitable even for load-bearing structures and monolithic constructions. The technology allows for the use of various plastic and rubber waste as construction materials, further contributing to sustainability. The resulting lightweight concrete has numerous advantages over traditional building materials, including lower weight, simpler manufacturing processes and reduced costs compared to current solutions. Additionally, it meets industry standards for sound and thermal insulation, making it an ideal choice for environmentally conscious builders and developers.



POTENTIAL APPLICATIONS

The primary application of the ICL-K1 technology is in the production of lightweight concrete and building blocks. However, its versatility allows for a wide range of applications, including monolithic structures, masonry and block elements, and panel elements. The technology enables the creation of structures with excellent thermal insulation, fire resistance, and load-bearing capacity, making it suitable for various construction projects. Additionally, the use of plastic waste as construction material opens up opportunities for recycling and waste management in the construction industry.



CUSTOMER BENEFITS

The ICL-K1 technology offers numerous benefits to customers. For manufacturers, it presents an opportunity to produce environmentally friendly and cost-effective building materials, tapping into a growing market demand for sustainable construction solutions. Distributors can offer a unique and innovative product that meets industry standards and addresses the need for energy-efficient and durable construction materials. End-users benefit from the thermal insulation, fire resistance, and load-bearing capacity of structures built with ICL-K1 technology, leading to lower energy costs and increased comfort. Overall, the technology promotes sustainability, reduces environmental impact, and offers economic benefits to all stakeholders involved in the construction industry.

If you are interested, please respond to:

**Mr. Balázs Mogyorósi
Technology Transfer Manager,
Head of TT Department
LC Innoconsult International**

innovacio@lcinnconsult.com
www.lcinnconsult.com