

Gepocit® a unique solution for construction and infrastructure

Limitations of current construction materials

Construction sector and civil engineering rely heavily on the use of natural stone and gravel. However, there is a need to reduce the use of virgin natural resources and decrease the industry's environmental impact. Natural resources are also used in the steel bar reinforcement inserted to increase strength and durability of concrete structures. Reinforcement with steel severely limits versatile possibilities for design. Furthermore, steel reinforcement is a labour-intensive phase in the construction process, and production costs would be notably smaller without it.

Gepocit® strength and versatility with less natural resources

The Gepocit® solution developed by Apila Group is a novel construction material that uses residual resources from the energy and mining industries. The use of sustainable residual materials and protection of precious natural resources contribute to the circular economy. Thanks to a geopolymer adhesive and fibre reinforcement, the material does not require additional reinforcement with steel.

There are plenty of non-organic, mineral-based, residual resources from the energy and mining industries. These valuable resources are not currently fully utilized. With Apila Group's extensive knowledge of chemistry and expertise in stone-based materials, these valuable resources can be turned into a unique and strong building material.

The best value for your industry

Our experts determine the specific composition of the Gepocit® material based on individual customer needs. This means that different product qualities can be taken into consideration during product development. Gepocit® is strong, may be used in a wide range of products and is very cost-effective. Examples of Gepocit® include lightweight material for insulation and water permeable material for non-slip paving. This versatile material is also available in a marble pattern or white colour for decorative coating.



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