



Geomin Mining Industry and
Trade Ltd.

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Geomin provide environmental surface coating systems with carbon dioxide capture capacity.

Nowadays concentration of carbon dioxide is increasing in our cities due consumption of fossil fuels and the decrease of the green areas. Especially in the winter season CO₂ concentrations are generally higher in urban areas. Carbon dioxide has green house effect and this causes to warm the surface and lower atmosphere. Increasing concentrations of CO₂ in the atmosphere cause a substantial rise in global temperatures and changes to other parts of the climate system with consequences for the environmental and for human health. Carbon dioxide affects respiratory, heart and nervous systems of human beings. For this reason, the concentration of CO₂ which is heavier than air exists at the lowest level of cities and needs to be cleaned.

As a solution to this, Geomin has developed Paving Stone Systems that will convert CO₂ into Mg-bicarbonate, which can react with CO₂ in the pavement and road surfaces. Natural weathering effect reaction area of stone increased by using nano-sized olivine particles in an innovative design. This solution will primarily absorb CO₂, which increases concentration near-surface. Reaction creates Mg- Bicarbonate which will function as a natural fertilizer and will also have positive side effects in the acidification of waste water. This would be a innovative product that would be alternative to all kind of open air surface covering systems.

The project is aimed to be beneficial to community health and especially to the environment, create new market/product to floor coating systems, roof and other open space coatings manufacturers all over the world.