

GAS BETON:

This refers to lightweight concrete made by generating gas in a cement mix so that the cement foams and then hardens in a mold with tiny air bubbles entrapped. The resulting material is cut into slabs or blocks similar to conventional cement blocks, but extremely lightweight.

The cell structure is similar to a sponge made of a Portland cement paste with tiny entrapped air bubbles. Density is approximately 40-50 lb. per cubic foot (500-600 kg/cubic meter).

Gas beton is lightweight and does not have great compressive strength; it is used for insulating concrete under refrigeration room floors. It is sawn into slabs for wall panels and it is also cut into cubes for building blocks walls.

This material has an extremely friable surface because it is similar to foam glass, and if the surface is rubbed vigorously by hand, tiny particles will break off. Since the surface is friable, normal Portland cement mortars and thin set mortars do not bond well or permanently. Slight shrinkage in a cement mortar or thin set mortar will tear this weak surface of gas beton and result in delamination of any stucco, mortar application, or thin set mortar.

A LATICRETE® Latex Stucco, Plaster or Thin-Set Mortar can be applied to "gas beton" surfaces because the shrinkage strain and does not cause a tearing of the surface.

YTONG:

This is another form of gas beton or expanded cellular concrete; it is lightweight and used similar to gas beton for making slabs, insulating concrete and cubes or building blocks.

YTONG is a common building material for blocks that are used for "in-fill" wall panels because of its light weight and fire resistance. This is used throughout England and in other European countries.

LATICRETE Latex Stucco, Plaster or Thin-Set Mortars are suitable for application to YTONG wall and have been successfully used for applying ceramic facades over YTONG block walls.

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