

WHY CARIB CEMENT PLUS?

‘Plus’ means natural pozzolan added and additional benefits.

Carib Cement Plus is a blended cement made with natural pozzolan. Natural pozzolan is a material present in volcanic ash and indigenous to the region. The pozzolan used in Carib Cement Plus is mined locally in St. Thomas.

The use of natural pozzolan in Carib Cement Plus has additional benefits not present in Ordinary Portland Cement (OPC) and/or slag cement.

Benefits of using Carib Cement Plus with natural pozzolan are:

Increasing strength – compressive and flexural strength will continue to increase for a long time, over years. This is one of the main reasons that ancient structures have lasted for over 2000 years.

PLUS: Reduced cost of production – Clinker which is an important intermediate product in cement manufacturing requires significant energy to produce. Blended cements require less clinker and so, are comparatively more economical to produce.

PLUS: More environmentally friendly – Less clinker means less energy in the production process and as such, reduced carbon dioxide emissions.

PLUS: Reduced permeability and pores – Natural pozzolan increases the resistance to chloride and sulphate attacks (protects steel reinforcement from corrosion). This is ideal for the tropics and structures near to the sea.

PLUS: Reduced heat of hydration – Natural pozzolan decreases the heat generated by concrete production and delays the onset of peak temperature.

PLUS: Reduced creep and cracks – Natural pozzolan moderates the expansion and shrinkage of concrete.

PLUS: Reduced alkali-aggregate reaction – Natural pozzolan minimizes the reaction between the silica in aggregates and the hydroxides formed from hydration. This reduces expansion and the cracking of concrete.

PLUS: Reduced carbonation – Natural pozzolan prevents the formation of carbon dioxide and the subsequent deterioration of the concrete.

PLUS: Improved durability – The reaction of natural pozzolan with the hydrated cement (concrete mix) forms the cement strengthening compound, thus reducing voids, resulting in a denser, stronger, and more durable concrete.

PLUS: “Carib Cement Plus” uses natural pozzolan sourced from Jamaica whereas slag cement uses waste slag from the steel industry.



CARIB CEMENT

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MORE THAN JUST CEMENT