Flyash based Value Added Products

Description:

Flyash based Value Added Products, Coal Ash utilization, Fly Ash as Raw Material, Products from Waste

Fly ash is a fine powder substance which is a by-product of electric generation power plants produced by burning of pulverized coal. Fly ash contains aluminous and siliceous material that forms cement in the presence of water. Fly ash when mixed with lime and water forms a compound similar to Portland cement. Coal fired power plant produces fly ash which provides an excellent prime material used in embedded cement, mosaic tiles and hollow blocks.

Fly ash is used in concrete and had a successful track record as it provides mechanical and durable properties to concrete.

Fly ash can be a cost-effective substitute for Portland cement in many markets. Fly ash is also recognized as an environmentally friendly material because it is a byproduct and has low embodied energy, the measure of how much energy is consumed in producing and shipping a building material. By contrast, Portland cement has a very high embodied energy because its production requires a great deal of heat. Fly ash requires less water than Portland cement and is easier to use in cold weather. Other benefits include:

•Produces various set times

•Cold weather resistance

•High strength gains, depending on use

•Can be used as an admixture

•Considered a non-shrink material

•Produces dense concrete with a smooth surface and sharp detail

•Great workability

For more details download PDF file.

Keywords: Flyash Based Value Added Products, Coal Ash Utilization, Fly Ash as Raw Material, Products from Waste, Flyash - High Value Added Products and Application, Fly Ash for High Value Added Applications, Valuable Products from Fly Ash, Fly Ash as a Value Added Product, Utilization of Value-Added Products from Combustion Fly Ash, Value-Added Products from Fly Ash, Products made from Fly Ash, Fly Ash Products India, Fly Ash Uses, Fly Ash Bricks, Conversion Of Wastes into Value-Added Products, Value-Adde

Created At: 13 Oct, 2018