

INFLUENCE OF ADDING POLYSTYRENE IN CONCRETE STRENGTH

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ABSTRACT

Influence of adding polystyrene in concrete strength. Polystyrene concrete is a new thing and researched project to me. Polystyrene is a very light and brittle material. What will be the influence in compressive strength if I add in polystyrene into the concrete? From the searching in the library and internet. I can't find any information about polystyrene concrete at the start of the project. All I can found is expanded polystyrene concrete (EPS). EPS is a standard abbreviation for Expanded Polystyrene. EPS is a thermoplastic; closed cell lightweight, rigid foam plastic and some of the properties are similar to the Polystyrene.

Polystyrene is used for lighting and lighted signs and also for various molded pieces of hardware. Expanded (formed) polystyrene, of which Styrofoam is a well-know example, is used widely in the construction industry for duct and pipe insulation; insulation for freezers and walk-in refrigerators; and in insulation for walls, floor and ceilings of residence and commercial buildings. Polystyrene foam is also used as the core material in the manufacture of doors and sandwich panels.