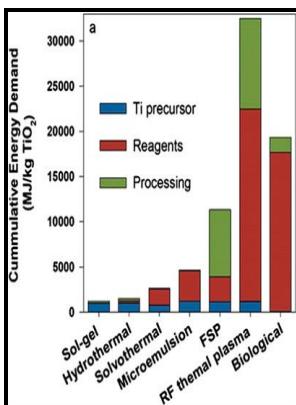


Leaching of metals from modern concrete and resulting durability implications

University of Portsmouth, Dept. of Civil Engineering - Concrete degradation



Description: -

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Brian Cherry Paper Series

With the notable exception of barium sulfate, most sulfates are slightly to highly soluble in water.

Carbonation of concrete

The corrosion increases the volume of steel and ultimately results in cracking and spalling concrete.

Acid Attack on Concrete

Sea water corrosion contains elements of both chloride and sulfate corrosion. Advises that specifications need to make allowances for the changes to avoid any adverse effects on durability. Ternary Blends Ternary blends of mineral admixtures are now recommended for improving the durability of important concrete structures.

Bioleaching: metal solubilization by microorganisms

It will be of interest to architects, structural engineers, specifiers, and professionals in the aggregates and recycling industries. This innovative construction technique may have an important role to play in improving energy efficiency in UK housing. Concretes made with porous sandstone aggregates have mostly performed well in resisting frost damage and protecting embedded metal.

APPLICATIONS OF REINFORCED CONCRETE IN CONSTRUCTION

Adsorptive Removal of Nickel from Different Soil Orders as a Function of Physicochemical Properties.

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