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This paper is a review of the research work done in the last few years in order to promote recycling into concrete for

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common use in building
construction [Naik & Moriconi
2005], with the aim of
emphasizing the feasibility, as
well as the advisability, of such
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This paper deals with the possibility of using fresh concrete waste as recycled aggregates in concrete. An experimental

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program based on two variables (proportion of fine aggregates replacement and proportion of coarse aggregates replacement) was implemented. The proportions of replacement were 0%, 50%, and 100% by mass of aggregates.

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*A Study of Concrete Made with
Fine and Coarse Aggregates ...*

Construction and demolition (C&D) waste is a central component of the solid waste stream, amounting to roughly 25 percent of total solid waste

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nationally. The largest part of C&D material is concrete, which encompasses around 70 percent of C&D generated material before recycling, according to the U.S. EPA. Construction (21.7 million tons) and demolition (353.6 million tons) activities accounted

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for over 375 million tons of
material in total.

The Importance of Concrete Recycling

This paper summarizes previous
research concerning the use of
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replacement for conventional materials in concrete and other related cement-based products.

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Recycling of FRP composites:
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The diverse advantages has been mainly covered like; increasing the concrete durability, increasing the concrete strength, increasing of concrete permeability, and ability of biological concrete...

Bioconcrete Strength, Durability,

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Permeability, Recycling ...

The cleaner technologies in concrete production, such as substituting relatively high percentage of cement by fly ash (up to 100%), the use of other natural pozzolans, development of concrete with recycling or

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waste materials, and developing nanoconcrete by integrating CNT's or self sensing CNT's in the concrete mix for higher performance in terms of strength, stiffness, and durability, have been developed and are addressed in this paper.

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The density reduction with 15% of traditional concrete. The moisture of plastic cement that produced in this research was lied in the range of 10.5% to 23.4% for products immersed 7 days in water. However, for products

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immersed 28 days, the moisture was decreased to be in the range of 3.6% to 11.6%.

Recycling of Polyethylene Waste to Produce Plastic Cement ...

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This paper presents
environmental benefits of
recycling industrial plastic wastes
into macroplastic fibers for

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reinforcing concrete. Detailed life cycle assessment (LCA) for the production of 100% recycled polypropylene (PP) fibers was conducted and compared with the environmental impacts of virgin PP fibers and steel reinforcing mesh (SRM).

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The civil engineering sector accounts for a significant percentage of global material and energy consumption and is a major contributor of waste

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material. The ability to recycle and reuse concrete and demolition waste is critical to reducing environmental impacts in meeting national, regional and global environmental targets. Handbook of recycled concrete and demolition waste summarises

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key recent research in achieving these goals. Part one considers techniques for managing construction and demolition waste, including waste management plans, ways of estimating levels of waste, the types and optimal location of

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Waste recycling plants and the economics of managing construction and demolition waste. Part two reviews key steps in handling construction and demolition waste. It begins with a comparison between conventional demolition and construction

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techniques before going on to discuss the preparation, refinement and quality control of concrete aggregates produced from waste. It concludes by assessing the mechanical properties, strength and durability of concrete made using

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recycled aggregates. Part three includes examples of the use of recycled aggregates in applications such as roads, pavements, high-performance concrete and alkali-activated or geopolymer cements. Finally, the book discusses environmental

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and safety issues such as the removal of gypsum, asbestos and alkali-silica reaction (ASR) concrete, as well as life-cycle analysis of concrete with recycled aggregates. Handbook of recycled concrete and demolition waste is a standard reference for all those

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involved in the civil engineering sector, as well as academic researchers in the field.

Summarises key recent research in recycling and reusing concrete and demolition waste to reduce environmental impacts and meet national, regional and global

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environmental targets Considers techniques for managing construction and demolition waste, including waste management plans, ways of estimating levels of waste, the types and optimal location of waste recycling plants Reviews

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key steps in handling construction
and demolition waste

This book is the result of a Special Issue published in Applied Sciences, entitled "New Trends in Recycled Aggregate Concrete". It identifies emerging research

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areas within the field of recycled aggregate concrete and contributes to the increased use of this eco-efficient material. Its contents are organised in the following sections: Upscaling the use of recycled aggregate concrete in structural design;

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Large scale applications of recycled aggregate concrete;
Long-term behaviour of recycled aggregate concrete; Performance of recycled aggregate concrete in very aggressive environments;
Reliability of recycled aggregate concrete structures; Life cycle

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assessment of recycled
aggregate concrete; New
applications of recycled
aggregate concrete.

New Trends in Eco-efficient and
Recycled Concrete describes
different recycled materials that

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have been used in eco-efficient concrete, reviewing previous publications to identify the most effective recycled materials to be applied in concrete manufacture. New trends on eco-efficient concrete are presented, filling a gap in the market. Sections cover

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various recycled materials applied in concrete production, present the latest on the lifecycle analysis of recycled aggregate concrete, detail new trends in recycled aggregate concrete research, and finally, present updates on upscaling the use of

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recycled aggregate concrete and structural reliability. Focuses on new trends in recycled aggregate concrete and its applications (rather than the more subjective 'sustainability' aspects) Contains very important contributions from researchers in eco-efficient

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concrete, including Chi Sun Poon, Jorge de Brito, Valeria Corinaldesi, Francisco Agrela, etc. Presents a 'one stop' reference for a graduate course on sustainable construction

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A complete review of the fast-developing topic of high performance concrete (HPC) by one of the leading researchers in the field. It covers all aspects of HPC from materials, properties and technology, to construction

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and testing. The book will be
valuable for all concrete
technologists and construction
engineers wishing to take
advantage of the re

Advances in Construction and
Demolition Waste Recycling:

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Management, Processing and Environmental Assessment is divided over three parts. Part One focuses on the management of construction and demolition waste, including estimation of quantities and the use of BIM and GIS tools. Part Two reviews the

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processing of recycled
aggregates, along with the
performance of concrete mixtures
using different types of recycled
aggregates. Part Three looks at
the environmental assessment of
non-hazardous waste. This book
will be a standard reference for

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civil engineers, structural
engineers, architects and
academic researchers working in
the field of construction and
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key recent research in recycling
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environmental impacts Considers techniques for managing construction and demolition waste, including waste management plans, ways of estimating levels of waste, and the types and optimal location of waste recycling plants Reviews

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key steps in handling construction
and demolition waste

This new RILEM report contains
state-of-the-art reviews on three
topics: recycling of demolished
concrete, recycling of masonry
rubble and localized cutting by

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Waste Material From blasting of concrete. It has been compiled by an international RILEM Committee and draws on research and practical experience worldwide.

The concrete industry consumes thirty billion tons of aggregate

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annually, almost all from non-renewable natural sources.

Demolition produces a growing amount of materials which are legally usable and readily available. If not used locally they must be transported and landfilled. Also, demolition

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generally takes place close to new construction sites: recycling promotes shorter transportation distances, a must for improving the overall environmental footprint of the construction world. This book encompasses all aspects of this current trend: How

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recycled aggregates are obtained and their properties. Improving their quality through phase selection or separation.

Incorporating concrete from demolition into the cement production process and the properties of the product

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obtained. What are the properties of concrete incorporating recycled concrete aggregates at various replacement levels, throughout the lifecycle of the material, from the fresh state to the long-term, including durability and fire. How recycled concrete can be

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optimised for various uses. How this new structural material can be managed in reinforced concrete construction. Solid experience from a series of experimental sites, and drawing on the Recybéton project, which lasted more than 5 years and

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gathered about 50 partners (from both academia and industry).

Specific issues in recycled concrete quality control. National practices in the most advanced countries, and the main national and European standards.

Achieving a sustainable process.

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Use of Recycled Plastics in Eco-efficient Concrete looks at the processing of plastic waste, including techniques for separation, the production of plastic aggregates, the production of concrete with

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recycled plastic as an aggregate or binder, the fresh properties of concrete with plastic aggregates, the shrinkage of concrete with plastic aggregates, the mechanical properties of concrete with plastic aggregates, toughness of concrete with plastic

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aggregates, modulus of elasticity of concrete with plastic aggregates, durability of concrete with plastic aggregates, concrete plastic waste powder with enhanced neutron radiation shielding, and more, thus making it a valuable reference for

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Waste Material From academics and industrial researchers. Describes the main types of recycled plastics that can be applied in concrete manufacturing Presents, for the first time, state-of-the art knowledge on the properties of conventional concrete with

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recycled plastics Discusses the technological challenges for concrete manufactures for mass production of recycled concrete from plastic waste

The building explosion during the years 1945-1960 will inevitably

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lead to increased demolition in the next decades since the lifetime distribution of structures no longer fulfills its functional social requirements in an acceptable way. In the building period mentioned there was a great increase in reinforced and

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prestressed concrete

construction. Consequently there is now more and more concrete to be demolished. Increasingly severe demands will be made upon demolition technology, including the demand for human- and environment-friendly

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techniques. On the other hand, the possibility of disposing of debris by dumping is steadily diminishing, especially close to major cities and generally in countries with a high population density. At the same time in such countries and in such urban areas

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a shortage of aggregates for making concrete will develop as a result of restrictions on aggregate working because of its effect on the environment and because of the unavailability of aggregate deposits due to urban development. From the foregoing

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it follows that recycling and re-use of environment- and human-friendly demolished and fragmented building rubble should be considered. The translation of this general problem into terms of materials science is possible by forming

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clear ideas of adhesion and cohesion: the whole process of demolition, fragmentation, and recycling or re-use of concrete is to break the bonding forces between atoms and molecules and to form new bonds across the interfaces of various particles of

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either the same nature or a
different nature.

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