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RECYBETON: THE FRENCH NATIONAL R&D PROJECT ON COMPLETE RECYCLING OF CONCRETES

Horacio Colina

Technical Association of the Hydraulic Binder Industries, France

France produces nearly 20Mt/year of demolished pure concrete, generally used in road works or embankments. This flow should increase in the near future, while less new roads will be built and more old buildings will be refurbish or deconstructed. Additionally, more than 50Mt of mixed demolition materials containing a good part of concrete or natural rock is available. Therefore, it is necessary to make the best use of this available material to preserve the natural aggregate resources, which are increasingly difficult to obtain and to avoid waste material landfills. Based on this reality, a national R&D project, partially sponsored by the French Ministry of Ecology was set in 2012, gathering 47 partners among which representatives of all construction stakeholders. Recently finished, RECYBETON has covered six fields of activities: Technologies and processes; materials and structures; sustainable development; standard and normative aspects; communication and promotion; natural aggregates and low rates of recycled concrete aggregates blends. The main outputs of the project, which has produced a scientific book (English and French versions), a guide of recommendations, proposals to adapt standards and regulations and five experimental demonstration sites (a car park, a small bridge, an archive room, short walls, sidewalk in an industrial premise and a slab in an office) are presented.

BIOGRAPHY

Horacio Colina did his PhD in Structure and Materials which was habilitated to supervise researches (French HDR Diploma). He is the Research Managing Director of Association Technique de l'Industrie des Liants Hydrauliques (ATILH), France and Director of the French National Project RECYBETON. He is at ATILH since 2005 and formerly he was a researcher at Ecole Nationale des Ponts et Chaussées (ENPC), France during 1999 to 2005 and at Laboratoire Environnement, Geomécanique et Structures (LAEGO), Nancy, France from 1997 to 1999. He has also been Professor at National University of Salta, Argentina from 1994 to 1997. He is author/co-author of 71 publications, where 41 peer-reviewed papers. He is co-editor of the book "CONCRETE RECYCLING: RESEARCH AND PRACTICE" a CRC Press-Taylor & Francis Group publication and co-director of the French version "LE BÉTON RECYCLE" published by Les Collections de l'IFSTTAR.

h.colina@atilh.fr



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