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RECYCLED AGREGATES IN CONCRETE: Historic of RecyBéton and example of experimentation

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Abstract

The reuse of recycled concrete aggregates (RCA) in a new concrete structure will contribute to valorise the construction waste within the framework of the sustainable development. RecyBéton is a French national research project which aimed at determining the viability of incorporating recycled concrete aggregates in structural concrete with a comprehensive coverage of the topic, from material science to demonstration sites and proposals for evolutions of standards. Involving 47 partners for a total cost of 5M partially supported by the Ministry of Ecology. The project was initiated in 2012 and will end in 2017. More than 100 researchers were involved and around 50 research reports are intended to be produced. A scientific 500 pages book in English will summarise this work. Experimental projects were also conducted on 5 different construction sites, from concrete slab on grade to a bridge in the south of France. Test on building were also conducted. Life Cycle Analysis (LCA) were made on each of these projects. This article will focus on two of these projects.

Keywords: Recycled concrete aggregates, RCA, Recybéton, experimental construction sites, LCA.