

7. Development of the Re-birth Concrete —Field Recycled Concrete using the Disassembly Concrete at the Whole Quantity—

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Authors developed the Re-birth Concrete which used the disassembly concrete at the whole quantity. The Re-birth Concrete is the field recycled concrete, and there is the purpose for recycling disposition and environmental loading reduction of the disassembly concrete. The advantage is to use all disassembly concrete in the field with the security of sufficient workability and strength. In addition, authors also developed exclusive manufacturing equipment "the Re-birth Concrete Number" which simplified transfer and installation and removal work between fields.

The Re-birth Concrete is the technology which is excellent in the environmental preservation shown in the following. It newly does not use the natural aggregate. There is no concrete done the disposal in the field outside. Since transportation distance of heavy goods shortens, reduction of the carbon dioxide emission become possible.

In this paper, the following are reported : Method outline, quality and application example of the Re-birth Concrete.

Key words: recycled concrete, recycled concrete aggregate, recycle, disassembly concrete