

Roadway Interlocking Blocks and Property Boundary Blocks Made of CARBOFIX® Cement Adopted for Public Works

Roadway interlocking concrete blocks and property boundary concrete blocks, which are both made of CARBOFIX®*1 cement developed by Taiheiyo Cement Corporation (Headquarters: Bunkyo-ku, Tokyo; President: Yoshifumi Taura), have been adopted for a municipal public works project of Fukaya City, Saitama, Japan.

This marks the first time that a poured-in2 concrete product made of CARBOFIX® cement has been put in practical use. In addition, with the use of CARBOFIX® cement, the amount of CO₂ emissions from this project was reduced by about 330 kg compared to that with ordinary cement.**

The roadway interlocking blocks for the project were manufactured at Saitama Plant of Taiheiyo Precast Concrete Industry Co., Ltd. (Headquarters: Shinjuku-ku, Tokyo; President: Akira Igarashi), and the boundary blocks were manufactured by Hirano Concrete Industry, Co., Ltd. (Headquarters: Ichihara City, Chiba; President: Tetsuya Hirano).

In manufacturing these blocks, CO₂ captured from exhaust gas from our Kumagaya Plant was used for forced carbonation curing (a technology in which concrete absorbs CO₂ and hardens during reaction with CO₂) to reduce CO₂ emissions.

The blocks were installed in part of the parking lot of a public facility (the Municipal Kindergarten and Children's Center Complex) in Fukaya City, Saitama, in July 2024. The space applied is for large vehicles and required to have higher durability, and a serviceability study has been launched in August to confirm that the pavement has sufficient performance.

Furthermore, the construction of the roadway interlocking blocks was carried out using machinery in cooperation with Taiheiyo Cement Block Industries Association, which has also reduced the labor required for construction.

Taiheiyo Cement Group has set out the Carbon Neutral Strategy 2050 and is working on technological development to achieve carbon neutrality throughout the entire supply chain by 2050. CARBOFIX cement is a promising innovative technology, and we will continue to work on it in the future.

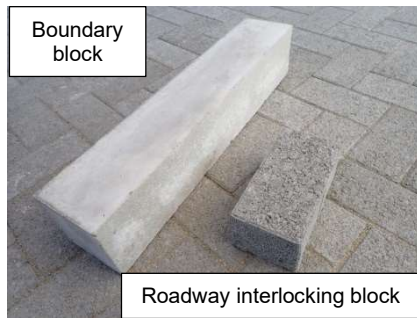


Photo 1: Blocks made of CARBOFIX cement

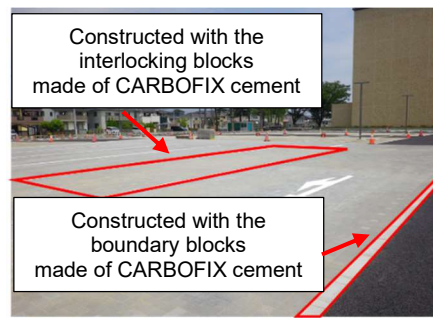


Photo 2: Parking area constructed with the blocks

*1: CARBOFIX is a registered trademark of Taiheiyo Cement Corporation.

*2: Poured-in concrete products are factory products that are fabricated by pouring concrete into molds and curing the poured concrete before demolding.

< For inquiries related to this release >
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