OTHER BENEFITS

Compactibility
Cohesive and easily compactable concrete mixes can be effectively produced using TGC as shown in the pictures.

Singapore Cement recently completed construction of a new 24,000 metric tonne cement silo using TGC for the entire structure.

For further information please contact:

Singapore Cement Manufacturing Company (Private) Limited
43/45, Sungei Kadut Street 4
Singapore 729061
Tel : +65 6488 5777

DISCLAIMER
The information provided in this brochure has been obtained from a number of different sources, including but not limited to in-house and third party laboratory experiments and, to the best of our knowledge, the information provided is accurate and current. We do not make any representation or warranty as to the accuracy or completeness of the information, which is of a general nature and does not address the specific circumstance of any particular situation.

Singapore Cement Manufacturing Company (Private) Limited assumes no liability with respect to any reliance placed on the information provided in this brochure. If you rely on the information in this brochure, in any way, you assume the entire risk as to the accuracy, currency, or completeness of the information herein contained. Decisions made or actions taken, in reliance on the information in this brochure, shall be the responsibility of the parties directly involved in those decisions or actions.

Nothing in this brochure shall create or be deemed to create any obligations, whether expressed or implied, on Singapore Cement Manufacturing Company (Private) Limited and its affiliates and subsidiaries. None of Singapore Cement Manufacturing Company (Private) Limited, its affiliates or subsidiaries shall be liable for damages of any kind arising out of or in connection with the use of the information in this brochure.

www.hlasia.com.sg
TAIHEIYO GREEN CEMENT (TGC) is the trade name of TAIHEIYO’s factory-manufactured Portland-fly ash cement that meets both the quality and performance requirements of Singapore Standard SS EN 197-1:2014 Specification for Cement Part 1: Composition, specifications and conformity criteria for common cements.

Because the components of PFA are fine and spherical in shape, the workability of fresh concrete produced with Portland-fly ash cement is improved during pumping and casting.

In order to ensure stable quality, only PFA from specific designated power plants is utilized with very stringent quality control measures in place during the manufacturing process of TGC.

TGC has been specially designed to reduce the carbon intensity of cement production and the incorporation of PFA, a recycled raw material, contributes to a greener society.

**ADVANTAGES**

Compared to Portland Cement, TGC offers the following advantages:

- **Long-term strength development**
  - The long-term strength of concrete made with TGC is enhanced due to the pozzolanic reaction between the calcium hydrate of ordinary Portland cement and the silica and alumina of the PFA.

- **High durability**
  - The stable characteristics of the dense hardened cement paste resulting from the pozzolanic reaction of the PFA produces a concrete with lower water penetration and higher chemical resistivity.

- **Improved workability**
  - The fineness and spherical shape of the PFA particles produces a concrete with improved workability for pumping and casting with a reduced w/c ratio.

- **Lower shrinkage**
  - The lower w/c ratio required when using TGC reduces the risks of cracking due to drying shrinkage and autogenous shrinkage.

**SPECIFICATIONS**

TAIHEIYO GREEN CEMENT is manufactured to conform to the requirements of SS EN 197-1:2014