



Our Ref : APPBCA-2022-23

01 Dec 2022

For enquiries, please contact:
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Tel.: 1800 3425 222 (1800-DIAL-BCA)
or use our Online Feedback Form at:
<https://www.bca.gov.sg/feedbackform/>

See **Distribution List**

Dear Sir / Madam

JOINT BCA/HDB/JTC/LTA CIRCULAR - USE OF 100% GRANITE FINES AS SUBSTITUTE FOR NATURAL SAND IN CONCRETE

Objective

This circular aims to update the industry on the use of 100% granite fines as substitute for natural sand in concrete.

Background

2 In 2007 and 2019, BCA shared with the industry that replacement of natural sand with granite fines in concrete production is allowed in SS EN 12620. To give confidence to the industry on the use of granite fines, we wish to highlight that a recent study carried out under the MND's Cities of Tomorrow (CoT) programme concluded that the use of 100% granite fines can achieve the desired performance required of the concrete in relation to workability. Strength classes up to C50/60 were studied and the study confirms that concrete produced using 100% granite fines has comparable, if not better performance in some properties to that of natural sand concrete.

Use Of 100% Granite Fines in Concrete

3 For your information, granite fines have been successfully used in Singapore in various building projects and is regarded as the more sustainable alternative way forward. The Institution of Engineers, Singapore (IES) and Association of Consulting Engineers Singapore (ACES) are supportive of this initiative.

4 It is noted that **Government Procurement Entities (GPEs) such as HDB, LTA, and JTC also support the replacement of up to 100% of granite fines in their projects.** Furthermore, ready-mixed concrete producers have the capabilities to move towards higher substitution of natural sand with granite fines

in concrete production. Hence, BCA would like to encourage the industry to adopt more granite fines in their projects.

For Clarification

5 We would appreciate it if you could bring to the attention of your members the content of this circular. The study report and specification on the use of granite fines are available at <https://www1.bca.gov.sg/regulatory-info/essential-construction-materials/technical-publications>

QPs may wish to be familiarised with these documents for the use of granite fines in concrete. Should you need any clarification, please submit your enquiry through BCA's Online Feedback Form at <https://www.bca.gov.sg/feedbackform/> or call us at 1800 342 5222.

Yours faithfully



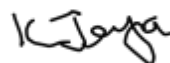
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