

Founded in 1927

Published by ACC Limited, L.B. Shastri Road, Near Teen Haath Naka, Thane (W), 400604.

The contents of this journal are contributions of individual authors, and reflect their independent opinions, findings, conclusions and recommendations and do not necessarily imply that they reflect the views of the Publisher, ACC Limited. The Publishers are not liable for any damage or inconvenience, caused to anyone who may have acted on the information contained in the publication.

The Indian Concrete Journal, ISSN 0019-4565
Copyright © 2017 ACC Limited.

ACC Limited - Registered Office - Cement House, 121, Maharashtra Karve Road, Mumbai 400 020.

The copyright, database rights and similar rights in all materials published in The Indian Concrete Journal are owned by ACC Limited. None of this material may be used for any commercial or public use, other than for the purpose of fair dealing, research or private study, or review of the contents of the journal, in part or in whole, and may not be reproduced or stored in any media for mass circulation without the prior written consent of the publisher.

PUBLISHING / EDITORIAL / ADVERTISEMENT & CIRCULATION OFFICE

The Indian Concrete Journal

ACC Limited

L.B. Shastri Road, Near Teen Haath Naka

Next to Eternity Mall, Thane (West) 400 604,

Maharashtra, INDIA.

Tel: 00-91-22-33027646

Website: www.icjonline.com

E-mail: info@icjonline.com

icj@acclimited.com

Editor: Ashish Patil

Editorial Team:

Ulhas Fernandes

S.M. Abbas



Cover image source:
www.specificationonline.co.uk

TECHNICAL PAPERS

SPECIAL ISSUE - SELF-COMPACTING CONCRETE

20

Optimization of mix proportioning for self compacting concretes using particle packing theories

M. Sri Rama Chandra, P. Swamy Naga Ratna, K.L. Radhika, P. Rathish Kumar and C. Yeekondalu

33

A quantitative approach in designing self compacting concrete using compressible packing model

Shaik Khaja Sameer, B. Jagadish Chokravarti and V. Ramosh

43

Development of high strength self compacting concrete using quartz sand as an alternative of natural river sand

B. Narendra Kumar

51

Importance of volume of paste on the compressive strength of SCC - A parameter to be considered in mix design

S. Girish

70

Durability studies of quaternary blended self compacting concrete using mineral admixtures

G. Sree Lakshmi Devi, P. Srinivasa Rao and P. Sarika

FEATURES

04

EDITORIAL

06

NEWS & EVENTS

63

DISCUSSION FORUM: Behaviour of shear wall with openings - A review

78

DISCUSSION FORUM: Evaluation of performance of concrete with calcined clay limestone cement

81

POINT OF VIEW: Effect of multi walled carbon nano tubes on strength and durability of self compacting concrete

Qasimoli I. Boradawala, Siddharth G. Shah and Santosh G. Shah

87

POINT OF VIEW: Development of self-compacting mortar mixes using agro based waste as a partial replacement to cement

M. Rome Gowde and Abhilash D.T.

93

POINT OF VIEW: Advantage of particle packing model in designing self compacting concretes

Avijit Chousey