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 © 2016 ACC Limited.

ACC Limited - Registered Office – Cement House, 121, Maharshi 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.solutions-in-textile.com





TECHNICAL PAPERS

12

Enhancing slab performance through the use of steel fibres in concrete Harvinder Singh

22

Comparison of strength between retempered concrete of two different grades
A.R. Pethkar and G.K. Deshmukh

25

Strengthening of RC beams with textile reinforced concrete overlays produced using textile reinforced concrete prototyping technology Smitha Gopinath, A. Ramachandra Murthy and Nagesh R. Iyer

32

Modelling of framed shear walls for non-linear analyses of reinforced concrete buildings
B. Surya Teja and Amlan K. Sengupta

41

Effect of supplementary cementitious materials on the strength and durability properties of recycled aggregate concrete

M. Manjunath and K.B. Prakash

FEATURES

04

EDITORIAL

06

NEWS & EVENTS

49

POINT OF VIEW: Durability reduction pattern of concrete against sulfate attack under dry-wet cycles
Xu Cundong, Ding Lianying, Liu Hui, Wang Rongrong,
Wen qinyu and Lian Haidong

56

POINT OF VIEW: Effects of soil structure interaction on cylindrical water tanks Virendra P. Dehadrai and R.K. Ingle

64

POINT OF VIEW: Mechanical properties of fly ash based geopolymer concrete with addition of GGBS
V. Bhikshma and T. Naveen Kumar