Accepted Manuscript

Title: Use of early acoustic emission to evaluate the structural condition and self-healing performance of textile reinforced cements

Authors: Michael El Kadi, Johan Blom, Jan Wastiels, Dimitrios G. Aggelis

PII: S0093-6413(16)30224-5
DOI: http://dx.doi.org/doi:10.1016/j.mechrescom.2017.02.007
Reference: MRC 3147

To appear in:

Received date: 3-10-2016
Revised date: 7-2-2017
Accepted date: 9-2-2017

Please cite this article as: Kadi, Michael El, Blom, Johan, Wastiels, Jan, Aggelis, Dimitrios G., Use of early acoustic emission to evaluate the structural condition and self-healing performance of textile reinforced cements.Mechanics Research Communications http://dx.doi.org/10.1016/j.mechrescom.2017.02.007

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Mechanics Research Communications. Year	Publication Office: Elsevier UK
Editor-in-Chief: A. Rosato New Jersey Institute of Technology, Newark, New Jersey, USA Anthony.Rosato@njit.edu	

Highlights

- First time that the difference between intact, cracked and self-healed TRC laminates is reported in literature.
- Simple acoustic emission parameters are indicative of the fracture mechanisms and show the transition from cracking to mixed mode.
- The differences are evident by the early activity before the mechanical load induces serious damage.
- Self-healed specimens exhibit acoustic behavior closer to the sound rather than the damaged.

0093-6413© 2015 The Authors. Published by Elsevier Ltd.

Download English Version:

https://daneshyari.com/en/article/5018648

Download Persian Version:

https://daneshyari.com/article/5018648

Daneshyari.com