Accepted Manuscript

Effect of capillary connectivity and crack density on the diffusivity of cementitious materials

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 PII:
 S0020-740

 DOI:
 10.1016/j.ij

 Reference:
 MS 3863

S0020-7403(17)31988-4 10.1016/j.ijmecsci.2017.07.058 MS 3863

To appear in: International Journal of Mechanical Sciences

Received date:	27 October 2016
Revised date:	14 March 2017
Accepted date:	20 July 2017

Please cite this article as: Yuguo YU, Y.X. ZHANG, Effect of capillary connectivity and crack density on the diffusivity of cementitious materials, *International Journal of Mechanical Sciences* (2017), doi: 10.1016/j.ijmecsci.2017.07.058

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Highlights

- A REV containing the coexistence of multiple EMT schemes is investigated.
- A three-level homogenization scheme is developed to estimate diffusivity of cement.
- The effect of capillary connectivity and crack density on diffusivity is studied.
- The developed method is applied to model the external sulfate attack.

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