

Author's Accepted Manuscript

Special Issue on Adhesion, Surface Preparation and Adhesive Properties

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PII: S0143-7496(15)00221-3

DOI: <http://dx.doi.org/10.1016/j.ijadhadh.2015.12.018>

Reference: JAAD1761

To appear in: *International Journal of Adhesion and Adhesives*

Cite this article as: Lucas FM. da Silva and Robert D Adams, Special Issue on Adhesion, Surface Preparation and Adhesive Properties, *International Journal of Adhesion and Adhesives*, <http://dx.doi.org/10.1016/j.ijadhadh.2015.12.018>

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Guest Editorial

This special issue of the International Journal of Adhesion and Adhesives (IJAA) contains selected papers presented at the 3rd International Conference on Structural Adhesive Bonding (AB 2015). AB 2015 was chaired by the two of us and was held in Porto, Portugal during July 2-3, 2015. The goal of the conference was to provide a unique opportunity to exchange information, present the latest results as well as to discuss issues relevant to structural adhesive bonding research today. Approximately 160 papers were presented by researchers from more than 30 countries.

A wide range of topics was covered and many excellent papers were submitted. However, only certain papers were selected for inclusion in this special issue. The special issue is divided into two parts: Part I is about adhesion and surface preparation and Part II deals with adhesive properties, from formulation to mechanical properties. The adhesion science is truly multi-disciplinary in nature and the selection presented here reflects this fact.

Starting with Part I, the paper by Sadowski et al. deals with the morphology of selected concrete substrate surfaces using a newly designed three-dimensional (3D) scanner. A special focus was placed on the advantages and disadvantages of the latter over the other scanners. The authors found there is a relation between the values of roughness parameters and the pull-off adhesion of an epoxy resin on these surfaces. Tunalioglu and Sancaktar used different grit sizes of sandpapers under controlled rubbing experiments using a rheometer to investigate the role of adhesion in failure progression by particulate separation. Comparison

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