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| Nota di contenuto | Preface and listing of TC members -- 1. Introduction and Scope, by John L. Provis -- 2. Historical aspects and overview, by John L. Provis, Peter Duxson, Elena Kavalerova, Pavel V. Krivenko, Zhihua Pan, Francisca Puertas, and Jannie S.J. van Deventer -- 3. Binder chemistry - High-calcium alkali-activated materials, by Susan A. Bernal, John L. Provis, Ana Fernández-Jiménez, Pavel V. Krivenko, Elena Kavalerova, Marta Palacios, and Caijun Shi -- 4. Binder chemistry – Low-calcium alkali-activated materials, by John L. Provis, Ana Fernández-Jiménez, Elie Kamseu, Cristina Leonelli, and Angel Palomo -- 5. Binder chemistry – blended systems and intermediate Ca content, by John L. Provis, and Susan A. Bernal -- 6. Admixtures, by Francisca Puertas, Marta Palacios, and John L. Provis -- 7. AAM concretes – standards for mix design/formulation and early-age properties, by Lesley S -- C. Ko, Irene Beleña, Peter Duxson, Elena Kavalerova, Pavel V. Krivenko, Luis-Miguel Ordoñez, Arezki Tagnit-Hamou, and Frank Winnefeld -- 8. Durability and testing - chemical matrix degradation processes, by Kofi Abora, Irene Beleña, Susan A. Bernal, Andrew Dunster, Philip A. Nixon, John L. Provis, Arezki Tagnit-Hamou, and Frank Winnefeld -- 9. Durability and testing - degradation via mass transport, by Susan A. Bernal, Vlastimil Bílek, Maria Criado, Ana Fernández-Jiménez, Elena Kavalerova, Pavel V. Krivenko, Marta Palacios, Angel Palomo, John L. |

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Sommario/riassunto

This is a State of the Art Report resulting from the work of RILEM Technical Committee 224-AAM in the period 2007-2013. The Report summarises research to date in the area of alkali-activated binders and concretes, with a particular focus on the following areas: binder design and characterisation, durability testing, commercialisation, standardisation, and providing a historical context for this rapidly-growing research field.
