# Development of spray geopolymers for sewer system

Geopolymer materials (GPM) avoid the formation of Ca-rich acid-dissolvable hydration products – as in case of normal concrete and alkali activated Ca-rich binders - thereby exhibiting high acid resistance. This fact could be used in many application areas as in the case where the efficient, safe and cost-effective gathering and transport of sewage presents a key principle in order to maintain sanitary standards. Since lamination and spraying are the preferred application techniques of GPM in repair applications of sewer systems, development of spray geopolymer formulation presents unique challenge.

Investigation of fresh GPM properties in order to investigate influence of rheological properties with the main aim to obtain optimal spray GPM formulation for sewer systems. The optimal formulations should be tested related to mechanical, microstructural, drying shrinkage and durability properties.

*Start immediately possible.*

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*Literatur:*

Own research on the above mentioned procedures, standards and state of art related to given subject.