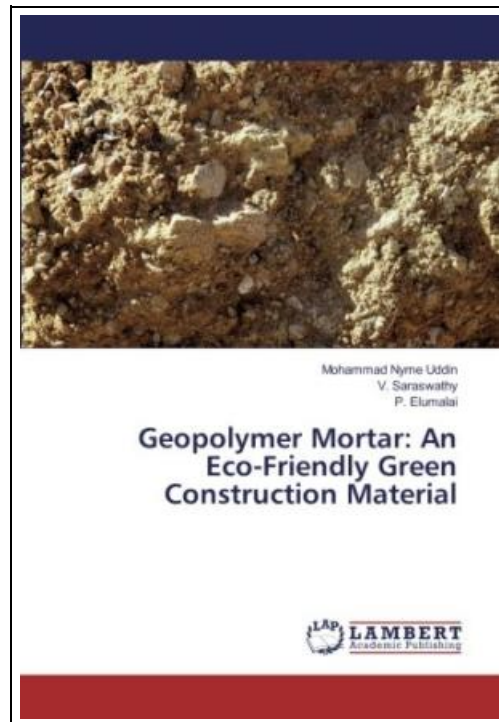


## Geopolymer Mortar: An Eco-Friendly Green Construction Material



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## GEOPOLYMER MORTAR: AN ECO-FRIENDLY GREEN CONSTRUCTION MATERIAL

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Geopolymer mortar is cement less which is gaining popularity globally towards the sustainable development. It can be produced from mineral admixtures such as fly ash, clay, red soil with user-friendly alkaline-reagents. Production of Ordinary Portland Cement (OPC) requires large amount of energy as well as carbon footprint. It is shown that OPC emits approximately 5% of global CO<sub>2</sub> emissions annually, which works out to nearly more than ton of CO<sub>2</sub> emission for every one ton production of OPC. Clay and red soil are the best selection for that and both are usable as an eco-friendly building materials also available in locality. So this book shows the possibility of using clay and red soil based mortar in construction industry. The composition and microstructure were characterized by XRF, Particle Size Analyzer, XRD, TGA, SEM and EDAX as well. Studies were carried out for both materials with respect to compressive strength, ultrasonic pulse velocity, effective porosity and co-efficient of absorption. The results indicated that Geopolymer mortar with clay and red soil can be used as an alternate construction material in the construction industry. | Format: Paperback | Language/Sprache: english | 68 pp.



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