

### **Use of biomass ash as eco-friendly mineral admixture in lightweight plaster composition**

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Wood chips ash coming from biomass heating plant is studied as an eco-friendly mineral admixture in plaster mix design. The raw material was mechanically activated by milling in a vibratory disc mill to a degree of fineness comparable to lime-hydrate. In plaster composition, wood chips ash and metakaolin are used as partial substitutes of lime hydrate. The plaster with blended binder exhibited improved mechanical resistance, lower thermal conductivity and diffusivity, and increased water vapour permeability compared to the reference lime plaster.