

Evaluation of Adobe Materials in Rural Architecture in Kırklareli



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ABSTRACT

Adobe material is the oldest building material used from the first settlements of the earth to the present day. It has been used for many years because it is easy to process, easily accessible, and has a structure compatible with human health. With industrialization, the use of adobe materials began to decrease. Especially, the production of materials with higher strength properties by firing the soil such as brick can be shown as an important factor for this decrease. Brick material has provided construction of multi-story, durable, and relatively more aesthetic masonry structures compared to mud-brick material and have partially replaced adobe. It is not possible to construct adobe structures that could respond to the requirements of today's big cities, but mud-brick structures still exist in small towns and villages. Adobe material deserves to be re-evaluated since it is environmentally friendly and harmless to human health. For this purpose, a field study was conducted that could be a source for the use of adobe material not only for structural purposes but also for insulation, coating, etc. purposes. Within this scope, the rural residences of Kırklareli, which has the highest surface area among the three provinces in the Thrace Region and has different characteristics with its geographical location, were chosen as the study area. In rural houses in Kırklareli, adobe, stone, and wood construction techniques were used together. According to the geographical locations of the settlements, the houses in plain villages are made of adobe, the houses in forest villages are wood, and the houses in the villages between the plains and forest villages are stone. In some settlements, there are mixed construction techniques in which these techniques are used together. In this study, the adobe material used for different purposes in the houses was identified and analyzed. The use of adobe in various building elements, as well as how and for what purpose, has been investigated. Thus, it is aimed to produce an alternative to the use of adobe material in today's buildings. It is expected that the study will contribute to the production of soil-based building components/elements of adobe material, and it will be explained with examples that adobe material has a much wider usage area compared to its alternatives.

Keywords: Adobe Material, Kırklareli Rural Houses, Adobe Building, Building Materials