

**Project Title “Effect of the Amount of Fibers on Compressive Strength of Thai
Traditional Stucco”**

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ABSTRACT

Thai stucco has been used for decoration of Thai architecture. The material used for stucco not only has good workability when it is a paste but also has to be strong enough when it becomes rigid. However, no reliable Compressive strength of Thai Traditional Stucco has been reported. The objectives of this research were to evaluate compressive strength of Thai Traditional stucco by using tenting apparatus used for tensile test of cement-mortar. Also, the effect of fibers on Compressive strength of stucco was obtained. Atterberg's Limit tests were adapted to test P.L. and L.L. of stucco paste to obtain the proper amount to water for good workability of stucco paste. Test results show that the proper dose of fibers, about 0.5% by weight, can enhance the Compressive strength of stucco which agrees well with the theory of fiber reinforcement.