Determination of surface abrasion values of building materials, according to TS 699 (2009), are performed on the samples which are stored normal curing conditions during 28 days. However, the actual conditions of use of building materials exposed to both the effects of the atmosphere and physical-mechanical effects at the same time. In many different studies, it was determined in between 10% - 40% a reduction that especially, After the effect of freeze-thaw, with the mechanical properties of stone-built structure materials such as concrete. In this study, colemanite and abrasion properties of the samples were examined at different rates and the samples are stored in the standard curing condit. According to the experimental data obtained abrasion resistance values of the relation investigated at before and after freeze-thaw experiment.