The aim of this article is describing the ways of eliminating the common disadvantages related with the usage of end product and operating efficiency observed in various finishing processes. In order to obtain functional textile materials, substances with completely natural essences were used instead of finishing chemicals and thus various effects were achieved. The cotton fabric was printed with colemanite, amorphous silica and pumice and then its functional properties such as tensile strength, flame retardancy, water repellency, air permeability were investigated. Applying this production method, it will be possible to obtain fabrics with high tensile strength, flame retardancy, water repellency, less air permeability and low cost. It can be concluded that the investigated finishing process is giving promising results and is easily applicable in the textile processes.