Lithium Disilicate glass, an all-ceramic system. Furthermore, lithium disilicate ceramics can be used as a dental repair material, bone repair and filling material, and biological implant material due to their high strength, good biocompatibility, translucency, and attractiveness[4]Consequently, this filler agent lithium disilicate is more resistant than feldspathic ceramic4; therefore, it is the material of choice for esthetic treatments with or without a framework.5,6 However, lithium disilicate remains sensitive to acid etching, which can alter the morphology of the ce- ramic and increase its capacity to bond with resin cements. The objective of this study was to evalu- ate the effect different HF concentrations and application times, with and without an additional etching step with 37% phosphoric acid (H3PO4), on the surface roughness of a ceramic reinforced by lithium disilicate and also on the strength of the bond formed between the ceramic and self-adhesive resin cement. It is one of the most aesthetically pleasing options, porcelain can be layered on it, creating incredible translucency and a very realistic looking tooth that matches with other natural teeth. Lithium disilicate is a filler agent of acid-etchable ceramics, and 60% to 65% of its composition includes lithium oxide (Li2O) crystals.