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# Morphological analysis of flowable resins after long-term storage or surface polishing with a mini-brush

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**Abstract:**
This study evaluated the surface roughness and morphological changes of various flowable resins after long-term storage in a phosphate-buffered saline (PBS) or surface polishing with a mini-brush. The tested products were Beautifil Flow BF02 and BF10, Clearfil Majesty LV, Filtek$^{TM}$ Supreme XT, and UniFil LoFlo Plus. A paste-type resin composite, Filtek$^{TM}$ Supreme, was used as a control. The prepared specimens were 10 mm in diameter and 1 mm in height. The standard surfaces were polished with #600–1200 diamond disks and kept in deionized water for 24 hours. Surface roughness was detected after storage in PBS (pH 7.4) for either 2 weeks or 6 months, or after polishing with a mini-brush.
Results of this study demonstrated that the surface roughness of the standard specimens had a lower value as compared to those after storage in PBS for 2 weeks and 6 months, or after polishing with a mini-brush.

**Key words:**
Flowable resin, Surface degradation, Morphology analysis

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