









Fig. 4. FESEM micrographs of the nanocomposites with 3% fly ash geopolymer at 1000x magnification (a) Type A: four blade (b) Type B: dissolver stirrer

## V. SUMMARY

In this study, the influence of mixing technique on epoxy nanocomposites with 0% and 3% of fly ash geopolymer filler was studied by means of compressive properties, water absorption and morphology. Nanocomposites were fabricated using two different mixing techniques by different propeller; four blade (type A) and dissolver stirrer (type B). The compressive properties were measured and cross sections were

characterized using Field Emission Scanning Electron Microscopy. It was observed that mixing of nanocomposites using dissolver propeller (type B) resulted in greater compressive strength and less water uptake when compared to four blade propeller (type A) as well as better dispersion of clay particles and fly ash filler.

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