

Properties of composites cured with new LED curing units

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Manufacturers of curing units claim shorter curing time for restorative composites with the new generation of LED curing lamps. Curing times down to 5 seconds are claimed to be efficient for the curing of many universal composite materials. In this project, the effect of short curing times is evaluated by measuring cure depth, residual monomer and resistance to abrasion.

Detailed profilometric studies of the composite surfaces after abrasion will be performed in order to gain information on the wear properties of the materials.

The project is partly sponsored by the Norwegian Directorate for Health and Social affairs.