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Abstract

The bond strength of bonding agent (HEMA based) in dentin surface can occur if collagen fibril is in permeable condition. This condition is influenced by the humidity in teeth surface, water content in dentin and the bonding resin insertion to dentin tubule. This research is aimed to identify the microscopic picture of tags resin and hybrid layer thickness and water content in dentin in relation to humidity in dentin surface. Bovine incisor was cut and shaped with diamond disk until reaching dentin area. After cutting was completed, dentin was cleaned and soaked into physiologic salt for 24 hours. Then it was dried with tissue paper for 5 minutes and put into desiccators for 1 hour. Soon after it is completed, it is measured and put into oven in 70°C to reach constant weight. From this process, we could reveal water content in dentin. Sample preparation for SEM: Cavity preparation was made to the tooth in labial area in circle shape with 5 mm diameter, 2 mm depth. Then etching was done with 37% phosphoric acid for 15 seconds and washed with 20 cc distilled water, and dried with cotton pellets. Then, it was put into desiccators for 1 hour. After it was completed, self cured acrylic ingredient was applied. In the middle of cavity, the tooth was cut. The cut tooth is examined for the hybrid layer thickness and tags resin length with scanning electronic microscope. The result data were analyzed with one-way ANOVA test at 95% confidence level and continued with LSD test. This research result showed that in 60% water content humidity of dentin was at the lowest point and 90% was at the highest point. At 60% to 90% humidity, mean score of hybrid layer, tags resin length showed there was no significant difference. In conclusion, the higher the humidity of ground teeth area, the higher the water content in dentin. There was no bonding microscopic picture between bonding dentin (HEMA) and collagen in humidity increasing.

Keyword : dentin, bonding, agent, humidity, water, content, tags, resin, hybrid, layer

Daftar Pustaka :
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