

Natural saliva - best effect on BMS 014&Superacryl
Natural saliva - improved wettability after 7-days immersion
Wettability increase was lower in fast thermic cycle resin

Eco Cryl Hot

Artificial saliva – excellent effect, especially on injection-type resins
Artificial saliva (7-days) → superwettable surface
No bounce back effect detected

Superacryl

BMS 014

The present study has two novel characteristics: artificial saliva as immersion liquid and natural saliva as testing liquid.

Biodentaplast

•Murray: 73,89 to 61,20° after the first 5 minutes & increases to 63,06° after 7 days exposure – test liquid: distilled water/bounce back effect •Ayme and Every: 2.2 x increase of the polar surface free energy (equivalent with contact angle decrease)

CONCLUSIONS

Acry Pol R1

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- 1. Exposure to natural or artifical saliva generates an improvement on wettability characteristics of investigated denture base materials.
- 2. In current experimental conditions, artificial saliva was more efficient than natural saliva regarding the hydrophilic behaviour.

Polyan

- 3. The different behaviour of denture base materials gives the practitioner an option regarding the denture base material choice.
- 4. Salivary substitutes should be better promoted towards exposed population categories.

Acry Pol R2