

Title (en)
IMPROVED POLYVINYLSILOXANE IMPRESSION MATERIAL

Title (de)
VERBESSERTES POLYVINYLSILOXAN-ABDRUCKMATERIAL

Title (fr)
MATERIAU A EMPREINTE AMELIORE AU POLYVINYLSILOXANE

Publication
EP 0986362 A2 20000322 (EN)

Application
EP 98924981 A 19980529

Priority
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Abstract (en)
[origin: WO9853791A2] Improved two component polymerizable polyorganosiloxane compositions are described, particularly for use in making dental impressions, having improved tear strength and wettability. Improved tear strength results from inclusion of a quadri-functional polysiloxane having a vinyl content of 0.16 to 0.24 m-mole/g. Working time is maintained by including sufficient amounts of a retarder composition that delays onset of the vinyl polymerization. Wettability is improved by including a surfactant resulting in a surface contact angle with water at three minutes of less than 50 DEG . The surfactant chosen has an HLB of 8-11, such that the wetting contact angle is achieved within less than two minutes and remains wetting throughout the working time of the impression taking, substantially improving impression quality. A low viscosity impression material is improved and includes a base component and a catalyst component. Both components are siloxane-based materials.

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