

11 LITERATURVERZEICHNIS

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12 ANHANG

12.1. Materialliste

12.1.1. Inhaltsstoffe der in Abschnitt 2 verwendeten Materialien

| Material | Inhaltsstoffe | Menge |
|---------------------------------------|---|------------------|
| Helioseal[®] | Bisphenol- α -glycidylmethacrylat (BisGMA) | 58,0 % |
| | Triethylenglycoldimethacrylat (TEGDMA) | 39,0 % |
| | Titandioxid | 2,0 % |
| | Stabilisatoren und Katalysatoren | 1,0 % |
| Heliobond[®] | Bisphenol- α -glycidylmethacrylat (BisGMA) | 59,5 % |
| | Triethylenglycoldimethacrylat (TEGDMA) | 39,7 % |
| | Stabilisatoren und Katalysatoren | 0,8 % |
| Resulcin Monobond[®] | Bisphenol- α -glycidylmethacrylat (BisGMA) | Keine Angaben |
| | Triethylenglycoldimethacrylat (TEGDMA) | |
| | Polymethacryl oligomaleinsäure | |
| Excite[®] | Phosphonsäureacrylat, Hydroxyethylmethacrylat (HEMA) | } 73,6 % |
| | Bisphenol- α -glycidylmethacrylat (BisGMA) Dimethacrylate | |
| | Ethanol | 25,0 % |
| | Hochdisperses Siliziumdioxid | 0,5 % |
| | Katalysatoren, Stabilisatoren | 0,9 % |
| | | |
| Solobond M[®] | Aceton | Keine Angaben |
| | Bisphenol- α -glycidylmethacrylat (BisGMA) | |
| | Triethylenglycoldimethacrylat (TEGDMA) | |
| | Hydroxyethylmethacrylat (HEMA) | |
| | Säuremodifizierte Methacrylate | |
| | BHT | |
| | Campherchinone Fluorid | |
| Adper Prompt L-Pop[®] | Flüssigkeit 1 (rotes Kissen): Methacrylat-Phosphorester | Keine Angaben |
| | Bisphenol- α -glycidylmethacrylat (BisGMA) | |
| | Initiator auf Campherchinon-Basis | |
| | Stabilisatoren | |
| | Flüssigkeit 2 (gelbes Kissen): Wasser | |
| | Hydroxyethylmethacrylat (HEMA) | |
| | Polyalkensäure | |
| | Stabilisatoren | |
| | | |

12.2. Patente

Produkt- sowie Methodenentwicklungen auf Grundlage der Ergebnisse dieser Arbeit wurden teilweise patentrechtlich geschützt.

Meyer-Lückel, H., Paris, S., Kielbassa, A.M.:
Campus Benjamin Franklin, Charité (DE)
US 11/040,442 „Method of Infiltrating Enamel Lesions“
eingereicht am 21. Januar 2005

Meyer-Lückel, H., Paris, S., Kielbassa, A.M.:
Campus Benjamin Franklin, Charité (DE)
US 10/432,271 „Method of Infiltrating Enamel Lesions“
(„continuation“ von US 11/040,442)
eingereicht am 11. Mai 2006

Meyer-Lückel, H., Paris, S., Kielbassa, A.M.:
Campus Benjamin Franklin, Charité (DE)
EP 06021966.4 „Method and Means for Infiltrating Enamel Lesions“
eingereicht am 19. Oktober 2006

12.3. Erklärung zum Kopierschutz von Abbildungen

Alle Abbildungen der vorliegenden Arbeit, die aus zur Veröffentlichung angenommenen sowie bereits publizierten wissenschaftlichen Arbeiten entnommen wurden, unterliegen dem Kopierschutz und sind Eigentum des jeweiligen Verlages.

Abschnitt 2:

Meyer-Lückel, H., Müller, J., Paris, S., Hummel, M., Kielbassa, A.M.:
„Penetration verschiedener Adhäsive in initiale Schmelzläsionen *in vitro*.“
Schweiz Monatsschr Zahnmed 2005;115:316-323

Meyer-Lückel, H., Paris, S., Müller, J., Cölfen, H., Kielbassa, A.M.:
„Influence of the application time on the penetration of different dental adhesives and a fissure sealant into artificial subsurface lesions in bovine enamel.“
Dent Mater 2006;23:22-28

Paris, S., Meyer-Lückel, H., Müller, J., Hopfenmüller, W., Kielbassa, A.M.:
„Progression of sealed initial bovine enamel lesions under demineralizing conditions *in vitro*.“
Caries Res 2006;40:129-134

Müller, J., Meyer-Lückel, H., Paris, S., Kielbassa, A.M.:
„Inhibition of lesion progression by penetration of resins *in vitro*: Influence of the application procedure.“
Oper Dent 2006;31:338-345

Abschnitt 3:

Meyer-Lückel, H., Paris, S.:

”Progression of artificial enamel caries lesions after infiltration with experimental light curing resins.“

Caries Res 2008;42:117-124

Paris, S., Meyer-Lückel, H., Cölfen, H., Kielbassa, A.M.:

”Resin infiltration of artificial enamel caries lesions with experimental light curing resins.“

Dent Mater J 2007;85:582-588

Paris, S., Meyer-Lückel, H., Cölfen, H., Kielbassa, A.M.:

”Penetration coefficients of commercial and experimental composites intended to infiltrate enamel carious lesions.“

Dent Mater 2007;23:742-748

Abschnitt 4:

Meyer-Lückel, H., Paris, S., Kielbassa, A.M.:

”Surface layer erosion of natural caries lesions with phosphoric and hydrochloric acid gels.“

Caries Res 2007;41:223-230

Paris, S., Meyer-Lückel, H., Kielbassa, A.M.:

”Resin infiltration of natural caries lesions.“

J Dent Res 2007; 86:662-666

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ERKLÄRUNG

§ 4 Abs. 3 (k) der HabOMed der Charité

Hiermit erkläre ich, dass

- weder früher noch gleichzeitig ein Habilitationsverfahren durchgeführt oder angemeldet wird bzw. wurde,

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- die vorgelegte Habilitationsschrift ohne fremde Hilfe verfasst, die beschriebenen Ergebnisse selbst gewonnen sowie die verwendeten Hilfsmittel, die Zusammenarbeit mit anderen Wissenschaftlern/Wissenschaftlerinnen und mit technischen Hilfskräften sowie die verwendete Literatur vollständig in der Habilitationsschrift angegeben wurden,

- mir die geltende Habilitationsordnung bekannt ist.

Berlin, 04. September 2007

Dr. Hendrik Meyer-Lückel