

DM HEALTHCARE PRODUCTS INC.

10080 Willow Creek Rd., San Diego, CA 92131

T: 858.348.1122 F: 858.348.1123

WWW.DMHPI.COM



Advanced Resins designed specifically for future innovations in Dental Health and Practice

DM Healthcare Products, Inc. (DMHPI) was created by the team of scientists at Designer Molecules, Inc. (DMI) in response to growing new opportunities in the healthcare field. Based on the extensive in-house developmental and formulation experience in high performance adhesives and having created several successful advanced bonding technology businesses, DMI was comfortable in identifying innovative ventures to create and improve resins that fulfill the need for better performing healthcare products. To date, DMI has over 65 US patents issued or pending.

DMHPI develops resins, oligomers, and other polymeric materials with unique properties including but not limited to low-shrinkage resins, non-phthalate plasticizers and non-Bisphenol A materials.

Most of our products are functionalized with one or more reactive groups that permit their incorporation into organic polymer adhesives and coatings.

We encourage you to stay ahead of the competition by partnering with DMHPI to develop new restorative composite resins and filling materials. Formulate with our sealants, adhesion promoters and plasticizers so your company can offer the newest resin innovations and advances in dental health.

We also offer some of the commonly used dental resins and adhesion promoters that are now out of patent, such as PMDM, PMGDM, 10-MDP, and 4-META.



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ADHESION PROMOTERS

H1251A: Pyromellitic Dianhydride Glycerol Dimethacrylate Adduct (PMGDM)

- *Clear solution*
- *Improved shelf life*
- *Provided as 50% (wt/wt) solution in acetone*

H1217: Pyromellitic Dimethacrylate (PMDM) Neat

- *Fine white powder*
- *Versatile additive for adhesion enhancement*

H1217-M: Pyromellitic Dimethacrylate Mixture of Isomers (PMDM)

- *Fine white powder*
- *Lower cost alternative to H1217*
- *Versatile additive for adhesion enhancement*

H1231: 4- Methacryloxyethyl Trimellitic Anhydride (4-META)

- *Reactive Primer for Adhesion Enhancement*
- *White Powder*
- *Melting Point: >93 °C*

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H1218: 10-Methacryloyldecyl Dihydrogen Phosphate (10-MDP)

- *Phosphate containing methacrylate modified monomer*
- *Provides improved long-term bonding performance*

H1219: 1, 10-Decanediol / Mono-methacrylate

- *Substrate for 10-MDP synthesis*
- *More hydrophobic than HEMA*

H1270: 1,3- Dimethacryloyl-3-Phosphonoxy Glycerol (GDMA)

- *Phosphate containing methacrylate modified monomer*
- *Provides improved long-term bonding performance*

H1283: PPG (5) MA Phosphate

- *Possible 10-MDP replacement*
- *Provides similar adhesion*

H1251: PMGDM Neat (solventless) version

- *Lower cost non-flammable shipping*
- *Capable of custom dilution for adhesion system*

H1306: 2-Hydroxyethyl Methacrylate-Phthalic Anhydride Adduct

- *Liquid adhesive material*
- *Effective on biological surfaces*
- *Provides adhesion to nail plates*

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H1273: 2-Hydroxyethyl Acrylate-Phthalic Anhydride Adduct

- *Liquid adhesive material*
- *Effective on biological surfaces*

H1268: N-(3, 5-dimethylphenyl)alanine

- *Low color amine*
- *Radical cure with strong acids, such as PMDM*
- *Color stable, white solid*
- *Melting point - 122°C*

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BASE RESINS

H1228: Urethane Dimethacrylate (UDMA)

- *>500ppm BHT*
- *Light-cure capable*
- *Non-Bisphenol-A Resin*
- *Widely used in Dental Composites*
- *Refractive Index (20°C): 1.48*

H1441: Urethane Dimethacrylate (UDMA)

- *50-200ppm MEHQ*
- *Low Residual HEMA content*
- *Light-cure capable*
- *Non-Bisphenol-A Resin*
- *Widely used in Dental Composites*
- *Refractive Index (20°C): 1.48*

H1445: Urethane Dimethacrylate (UDMA)

- *200-300ppm MEHQ*
- *Light-cure capable*
- *Non-Bisphenol-A Resin*
- *Widely used in Dental Composites*
- *Refractive Index (20°C): 1.48*

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H1350: BisGMA

- *Bowen Resin*
- *Most widely used composite formulation material*
- *Provides RI for high quality composite*

H1345: MDI Replacement for BisGMA

- *Provides high RI material for high quality composites*
- *High viscosity for filler blending*
- *Similar reactivity to BisGMA*

H1349: Triethyleneglycol Dimethacrylate

- *Inhibitor BHT – 300-400 ppm*
- *Widely used diluent in dental composites*

H1159: 2-Hydroxyethyl Methacrylate

- *Low viscosity diluent*
- *Polar surface interactive*

H1238: Dimer Acid Diurethane Dimethacrylate

- *Low shrinkage on cure*
- *Very hydrophobic polymeric system*

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H1230: IPDI Urethane Dimethacrylate (UDMA-IPDI)

- *Light-cure capable*
- *Non-Bisphenol A resin*
- *High viscosity*

H1294: Soak-Off Methacrylate Nail Resin

- *Nail gel resin base*
- *High viscosity*
- *Glossy cured surface*
- *Soaks off nail in acetone*

H1318: Soak-Off Methacrylate Nail Resin

- *Nail gel resin base*
- *High viscosity*
- *Glossy cured surface*
- *Soaks off nail in acetone*

H1262: Phenyl Glycerol Dimethacrylate (PGDMA) Urethane

- *Low color*
- *Can be blended with GDMB H1223 to adjust viscosity*
- *Non-Bisphenol-A Resin*

H1223: Glycerol Dimethacrylate Benzoate (GDMB)

- *Low color*
- *Non-Bisphenol A resin resistance*
- *Very low viscosity*
- *Can be blended with PGDMA H1262 to adjust viscosity*

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H1266: TMHDI Urethane Diacrylate

- *Low color*
- *Nail gel component*
- *Rapid light activated cure*

H1333: IPDI + 2-Hydroxyethyl Acrylate

- *Base resin for nail gel formulations*
- *High viscosity*
- *Cures to hard glossy surface*

H9990: PEM 665

- *BisGMA replacement*
- *High Refractive Index - 1.50*
- *Low shrinkage*
- *Clear and Colorless*

H1293: Soak-Off Acrylate Nail Resin

- *Base resin for nail gel formulations*
- *High viscosity*
- *Cures to hard glossy surface*

H1134: Isobornylcyclohexyl Acrylate

- *Reactive monomer for nail gel system*
- *Pleasant scent*

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H1197: Isobornylcyclohexyl Methacrylate

- *Reactive monomer for nail gel system*
- *Pleasant scent*

H1391: HPMa/UDMA

- *NO Residual HEMA*
- *Light-cure capable*
- *Non-Bisphenol-A Resin*
- *Viscosity, 5rpm, 25°C, 11,290 cPas*
- *Refractive Index (20°C): 1.477*

H1394: HEMA-free UDMA

- *NO Residual HEMA*
- *Light-cure capable*
- *Non-Bisphenol-A Resin*
- *Viscosity, 5rpm, 25°C, 10,600 cPas*
- *Refractive Index (20°C): 1.483*

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H1396: HEMA-free, MEHQ-free, UDMA

- *NO Residual HEMA*
- *NO Residual MEHQ*
- *Light-cure capable*
- *Non-Bisphenol-A Resin*
- *Viscosity, 5rpm, 25°C, 7,431 cPas*
- *Refractive Index (20°C): 1.482*

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SILANATED DENTAL FILLER

H1280: 30% Barium Oxide Glass with a Refractive Index - 1.541

- Trimethoxysilylpropyl methacrylate surface agent
- 0.7-10.0 micron median particle sizes
- For BisGMA based systems

H1282: 27% Barium Oxide Glass with a Refractive Index - 1.530

- Trimethoxysilylpropyl methacrylate surface agent
- 0.7-10.0 micron median particle sizes
- For UDMA based systems

H1347: 33% Barium Oxide Glass with a Refractive Index - 1.55

- Trimethoxysilylpropyl methacrylate surface agent
- 0.7 - 10.0 micron median particle sizes
- For BisGMA based composite

H1290: 27% Barium Oxide Glass with a Refractive Index - 1.53

- Trimethoxysilylpropyl acrylate surface agent
- 0.7 - 10.0 micron median particle sizes
- For Acrylate based systems

H1291: Strontium Oxide Glass with a Refractive Index - 1.50

- Trimethoxysilylpropyl methacrylate surface agent
- 0.7 - 10.0 micron median particle sizes
- For Cosmetic nail systems

H1344: Silanated Reactive Dental Filler Glass

- 0.7 - 10.0 micron median particle sizes
- Application Glass Ionomer Cements
- Fluoride Releasing Glass

H1289: Silanated Reactive Dental Filler Glass with a Refractive Index - 1.50

- Trimethoxysilylpropyl acrylate surface agent
- 0.7 - 10.0 micron median particle sizes
- For Acrylate based systems

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H1436: Silanated OX 50 Silica

- *Trimethoxysilylpropyl acrylate surface agent*

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UNSILANATED DENTAL FILLER

A6255: UnSilanated Glass Dental filler Glass

- *2 micron median particle size*
- *Glass Refractive Index 1.53*

CURING PROMOTER

H1332: Distilled DHEPT

- *Improves cure over DMPT*
- *Low color*

A6246: Ethyl 4-(Dimethylamino)benzoate

- *Works very well with photoinitiators*
- *Color stable*

PLASTICIZER

H1222: Phenethyl Benzoate

- *Non-phthalate*
- *High index of refraction*
- *Very low viscosity*

H6220: Dibutyl-1.4-Cyclohexanedicarboxylate

- *Non-phthalate*
- *Very low viscosity*

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