

# A narrative review on adhesives for composite modeling and stratification

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## Abstract

Adhesive dentistry has significantly advanced, enhancing the bonding of composite materials to enamel and dentin. This review focuses on using adhesives as modeling agents in composite restorations, with particular attention to the M.A.P. (Modeling and Perfected Adhesion) technique.

A literature review was performed using PubMed/MEDLINE, Dentistry & Oral Sciences Source, and Dialnet. Relevant studies on adhesive materials, bonding strategies, and composite modeling techniques were included.

Adhesives used as modeling liquids improved bond strength, durability, and aesthetic outcomes. Hydrophobic adhesives better resisted water absorption and color stability than hydrophilic adhesives.

The M.A.P. technique simplifies composite insertion, reducing working time and minimizing the need for extensive finishing. Hydrophobic adhesives provide superior long-term stability, while hydrophilic adhesives may face issues of solubility and discoloration. Selecting the right adhesive is critical for ensuring optimal restoration performance.

The M.A.P. technique improves adhesive bonding efficiency, offering benefits like reduced working time, enhanced cohesive strength, and cost savings. However, limitations include compatibility issues with certain adhesives and potential water absorption.

**Keywords:** Adhesion dental, Composite bonding systems, Dentin etching

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## Introduction

### *Evolution of Adhesive Dentistry*

Adhesive dentistry has evolved considerably over the years, with key advancements in materials and techniques (1–7). Initially, adhesive systems were limited to bonding to enamel, but modern adhesives allow for reliable bonding to both enamel and dentin (8–15). The unique, moist environment of the mouth posed challenges, prompting the development of various adhesive systems to meet clinical demands (16–25). Advances have made adhesive dentistry more effective, offering better bond strength and durability for restorations (26–32).

### *Adhesion to Enamel and Dentin*

Enamel and dentin differ significantly in their bonding characteristics (33–39). Enamel consists primarily of hydroxyapatite, making it highly mineralized and resistant to acid etching (40–48). Enamel requires conditioning through acid etching to create a rough surface that facilitates bonding (49–55) for successful adhesion. In contrast, dentin is more complex, containing organic and inorganic components (56–62). The presence of the smear layer, a byproduct of cavity preparation, can obstruct adhesion, necessitating the use of acid to remove this layer and improve bonding (63–68). Thus, the bonding strategies for enamel and dentin are distinct, with enamel requiring etching and dentin needing additional preparation for adequate adhesion (69–79).

### *Characteristics and Components of Adhesives*

Dental adhesives must meet specific requirements to be effective in clinical settings (80–85). Key properties include biocompatibility (to avoid irritation to the pulp), wetting ability (to ensure the adhesive can bond to moist dentin), adhesive strength (for a durable bond to the tooth and restorative materials), and mechanical behavior (to withstand masticatory forces) (86–94). Additionally, adhesives should have radiopacity for diagnostic purposes and be easy to handle during application (95–101). Typical adhesives contain several components: an etching acid (usually phosphoric acid) to prepare the tooth surface, a hydrophilic primer (e.g., HEMA) for dentin bonding, and a hydrophobic resin (e.g., Bis-GMA) to bond with composite materials (102–107, 308). New formulations also include nanofillers to enhance the adhesive's physical properties, improving penetration and bond strength (108–113).

### *Historical Development of Adhesive Systems*

The history of adhesive dentistry began in 1951 with the introduction of Hagger's SEVRITION system (114–119). However, Buonocore's discovery of acid etching in 1955 revolutionized adhesive techniques (120–124). This technique allowed micromechanical bonding between the tooth and the adhesive, leading to more substantial and durable restorations (125–133). Over the years, resin-based adhesives significantly improved bond strength, especially those based on Bis-GMA. Subsequent innovations in adhesive systems have aimed at reducing post-operative sensitivity, improving durability, and simplifying application techniques (134–138).

### *Classification of Adhesive Systems*

Adhesive systems are commonly classified by their etching method and the number of steps required for application (139–145). Total-etch systems require separate acid etching of both enamel and dentin. Self-etch systems combine the etching and priming steps, eliminating the need for separate etching (146–150). Universal adhesives offer flexibility, functioning as either total-etch or self-etch systems (151–154). Adhesive systems can also be categorized by the number of application steps: three-step (total-etch), two-step (self-etch), and one-step (simplified systems). The goal of newer systems has been to reduce the number of steps while maintaining or improving bond strength (155–159).

### *The Composite Modeling Technique*

The M.A.P. (Molding and Perfected Adhesion Technique) revolutionized composite restoration procedures by enhancing the bonding phase (160–166, 309). This technique involves incremental application of composite resin, starting with acid etching of enamel and dentin and then multiple layers of adhesive and composite material (167–174, 310). Using a brush to apply the adhesive ensures uniform bonding and optimal infiltration (175–181). The technique minimizes polymerization shrinkage, improves the durability of the restoration, and reduces post-operative sensitivity (182–187). It also provides a smooth and esthetic finish during the final polishing stage (188–194).

## Materials and Methods

This work is a literature review based on a search for scientific evidence related to the research question.

### *Source of Study Materials*

The review utilized the PubMed/MEDLINE, Dentistry & Oral Sciences Source, and Dialnet databases to search for biomedical studies. Citations from included articles were also considered.

The final sample for this review included research articles from recent years, including bibliographic reviews, qualitative descriptive studies, quasi-experimental and experimental studies, technical product sheets, and books ("Dental Pathology and Therapeutics," "Restorative Dentistry: Clinical Protocols," and "Dental Adhesion").

Inclusion criteria for the search were keywords in the title, content relevant to the work's title, and articles related to modeling techniques and basic adhesion concepts.

## Results

The use of adhesives as modeling liquids in composite restorations improved bond strength between layers, enhancing the overall durability of restorations. Hydrophobic adhesives showed better resistance to water absorption, ensuring long-term stability, while hydrophilic adhesives had higher water absorption rates, potentially affecting durability.

Regarding color stability, hydrophobic adhesives maintained the composite's original color, whereas hydrophilic adhesives were more prone to discoloration. However, both types of adhesives prevented degradation of the composite material.

The M.A.P. technique, which utilizes adhesives as modeling agents, shortened the restoration process. It required less time for insertion and reduced the need for finishing and polishing. Adhesive use did not affect the mechanical properties of the restorations, with no

significant decrease in bond strength ( Table1). Overall, adhesives as modeling liquids improved the durability and esthetics of composite restorations. Hydrophobic adhesives offer superior performance in preventing water absorption and discoloration.

Table 1. Comparison of Adhesives Described in the Literature for Modeling Composite

Adhesive	Brand	Adhesive Type	Composition of Elements Used
<b>Optibond All-In-One</b>	Kerr Corporation	Simplified Self-Etch	Glycerol-phosphate-dimethacrylate, mono- and dimethacrylate, water, acetone, ethanol, camphorquinone, nanoparticles
<b>Clearfil SE Bond</b>		Conventional Self-Etch	Bonding: MDP (methacryloyloxydecyl dihydrogen phosphate), HEMA, dimethacrylate monomer, microfillers, catalyst
<b>Futura-bond NR</b>	Voco, GMBH	Conventional Self-Etch	Liquid A: Phosphoric acid-methacrylate ester and modified carbonic acid. Liquid B: Water, ethanol, silica, nanofillers
<b>Adper SE Plus</b>	3M ESPE	Conventional Self-Etch	Liquid B: UDMA (4-trimethylhexane), TEGDMA (triethyleneglycol dimethacrylate), TMPTMA (hydrophobic trimethacrylate), HEMA (2-hydroxyethyl methacrylate) phosphates, MHP (methacrylated phosphates), zirconia microfillers, camphorquinone
<b>Futura-bond M</b>	Voco, GMBH	Simplified Self-Etch	Organic acids, UDMA, HEMA, camphorquinone, BHT (2,6-di-tert-butyl-p-hydroxy toluene)
<b>One Up Bond F</b>	Tokuyama	Conventional Self-Etch	Agent A: MAC-10 (malonic acid 10-methacryl oxide camethylene), methacrylate phosphate ester, Bis-GMA (Bisphenol A-glycidyl methacrylate), TEGDMA; photoinitiators. Agent B: HEMA, water, fluoroaluminosilicate, silica powder, photoinitiators
<b>Adper Single Bond 2</b>	3M ESPE	Simplified Total-Etch	Bis-GMA, HEMA, dimethacrylate, ethanol, water, photoinitiator, polycarboxylic and polyacrylic acids, functional methacrylate copolymer, silica nanofillers
<b>Adper Scotch-bond Multi-Purpose</b>	3M ESPE	Conventional Total-Etch	Activator: Ethyl alcohol, sodium benzenesulfinate. Bonding: Bis-GMA, HEMA, tertiary amines, photoinitiator. Catalyst: Benzoyl peroxide, Bis-GMA, HEMA
<b>Adper Universal</b>	3M ESPE	Universal Adhesive	MDP, dimethacrylate resins, HEMA, acrylic copolymer, filler, ethanol, water, photoinitiator, silane
<b>Optibond FI</b>	Kerr Corporation	Conventional Total-Etch	Bonding: Bis-GMA, 1,7,7-Trimethylbicyclo(2.2.1)-hepta-2,3-dione, HEMA, glycerol dimethacrylate, 2-(Ethylhexyl)-4-(dimethylamino)benzoate, TS530, OX-50 (silica dioxide), gamma-Methacryloxypropyltrimethoxysilane, barium borosilicate alumina, disodium hexafluorosilicate
<b>Optibond Solo-Plus</b>	Kerr Corporation	Simplified Total-Etch	Alkyl-Dimethacrylate resin, Hydroxyethyl Methacrylate, barium borosilicate alumina, silica dioxide, sodium hexafluorosilicate, Ethyl Alcohol
<b>Optibond All-In-One</b>	Kerr Corporation	Simplified Self-Etch	Glycerol-phosphate-dimethacrylate, mono- and dimethacrylate, water, acetone, ethanol, camphorquinone, nanoparticles

To be continued

<b>Clearfil SE Bond</b>		Conventional Self-Etch	Bonding: MDP (methacryloyloxydecyl dihydrogen phosphate), HEMA, dimethacrylate monomer, micro-fillers, catalyst
<b>Futura-bond NR</b>	Voco, GMBH	Conventional Self-Etch	
<b>Adper SE Plus</b>	3M ESPE	Conventional Self-Etch	Liquid B: UDMA (4-trimethylhexane), TEGDMA (triethyleneglycol dimethacrylate), TMPTMA (hydrophobic trimethacrylate), HEMA (2-hydroxyethyl methacrylate) phosphates, MHP (methacrylated phosphates), zirconia microfillers, camphorquinone
<b>Futura-bond M</b>	Voco, GMBH	Simplified Self-Etch	Organic acids, UDMA, HEMA, camphorquinone, BHT (2,6-di-tert-butyl-p-hydroxy toluene)
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<b>Adper Single Bond 2</b>	3M ESPE	Simplified Total-Etch	Bis-GMA, HEMA, dimethacrylate, ethanol, water, photoinitiator, polycarboxylic and polyacrylic acids, functional methacrylate copolymer, silica nanofillers
<b>Adper Scotch-bond Multi-Purpose</b>	3M ESPE	Conventional Total-Etch	Activator: Ethyl alcohol, sodium benzenesulfinate. Bonding: Bis-GMA, HEMA, tertiary amines, photoinitiator. Catalyst: Benzoyl peroxide, Bis-GMA, HEMA
<b>Adper Universal</b>	3M ESPE	Universal Adhesive	MDP, dimethacrylate resins, HEMA, acrylic copolymer, filler, ethanol, water, photoinitiator, silane
<b>Optibond FI</b>	Kerr Corporation	Conventional Total-Etch	Bonding: Bis-GMA, 1,7,7-Trimethylbicyclo(2.2.1)-hepta-2,3-dione, HEMA, glycerol dimethacrylate, 2-(Ethylhexyl)-4-(dimethylamino)benzoate, TS530, OX-50 (silica dioxide), gamma-Methacryloxypropyltrimethoxysilane, barium borosilicate alumina, disodium hexafluorosilicate
<b>Optibond Solo-Plus</b>	Kerr Corporation	Simplified Total-Etch	Alkyl-Dimethacrylate resin, Hydroxyethyl Methacrylate, barium borosilicate alumina, silica dioxide, sodium hexafluorosilicate, Ethyl Alcohol

**Discussion**

*Challenges in Composite Resin Modeling*

Modeling certain composite resins can be difficult, especially in more extensive restorations requiring different shades and properties (195–199). To address this, specialized modeling liquids or fluid composites have been developed (200–203). These materials help improve the handling and flow of composite resins, particularly when applying multiple layers to achieve the desired translucency or tone (204–209). Low-viscosity resins are often used to facilitate smoother application and reduce air entrapment, which can affect the final restoration (210–217).

*Modeling Techniques: RDMIT vs. M.A.P.*

The Restorative Dental Modeling Insertion Technique (RDMIT) uses low-viscosity resins to assist in the modeling process (218–223). This method helps

manage extensive restorations by improving composite manipulation and reducing the risk of air entrapment, resulting in smoother, more uniform restorations (224–229).

In contrast, the M.A.P. (Modeling and Perfected Adhesion) technique uses adhesives as modeling liquids. This approach improves the insertion and sealing of the composite and prevents discoloration over time (230–233). The adhesive penetrates the composite’s surface, enhancing adhesion between layers and ensuring a more substantial, more durable restoration (234–238).

*Effects on Bonding Strength and Mechanical Properties*

Using adhesives as modeling agents does not negatively affect composite resins’ mechanical strength. Research shows that adhesives can improve the bond strength between composite layers, leading to better long-term stability (239–242). Adhesives used in this way help

prevent defects such as air bubbles or weak bonds, which can compromise the restoration's durability (243–249). The key is selecting an adhesive that complements the composite resin, ensuring that both materials work harmoniously to enhance the final result (250–255).

#### *Water Absorption and Adhesive Selection*

The type of adhesive used can significantly impact the success of the restoration, particularly in terms of water absorption (256–261). While useful in some applications, hydrophilic adhesives are more prone to water absorption, which can weaken the bond over time. Hydrophobic adhesives, on the other hand, offer better resistance to water absorption and provide a protective layer that enhances the composite's durability (262–269). Therefore, selecting an adhesive with the right balance of hydrophobic and hydrophilic properties is essential for maintaining the strength and longevity of the restoration (270–273, 307).

#### *Color Stability and Discoloration*

Color stability is a critical concern, particularly in anterior restorations. Some adhesives, especially hydrophilic ones, may lead to discoloration over time (274–281). However, adhesives with hydrophobic properties tend to offer better color stability. While adhesives protect the composite from degradation and discoloration, they can still affect the final color if they contain high solvents (282–286). Despite this, they help prevent further degradation of the composite and preserve its overall appearance (287–292).

#### *Efficiency and Finishing*

Using adhesives as modeling liquids also offers practical benefits in terms of time and efficiency (293–299). The M.A.P. technique, for example, reduces the time needed for insertion and modeling. The process is faster when adhesives are applied correctly, and the need for extensive finishing and polishing is minimized. However, finishing and polishing are still crucial to enhance color stability and ensure the restoration's longevity (300–306).

### **Conclusions**

Based on the analysis of current adhesive materials and modeling techniques, the following conclusions can be drawn:

- Conventional total-etch adhesives, using only the bonding component, ensure stable cohesive strength, prevent infiltration, and reduce color changes.
- Hydrophobic adhesives with Bis-GMA resin provide better modeling capacity, while hydrophilic resins may suffer from solubility and color changes.
- The M.A.P. technique simplifies composite insertion, improving efficiency and adhesive bonding with fewer materials.
- Advantages of M.A.P. include more effortless execution, reduced working time, better cohesive strength, and cost savings; disadvantages include limited adhesive compatibility and water absorption.

### **Abbreviations**

Bis-GMA- Bisphenol A-glycidyl methacrylate

M.A.P. – Molding and Perfected Adhesion Technique  
RDMIT – Restorative Dental Modeling Insertion Technique  
SEM – Scanning Electron Microscopy

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### **Conflicts of Interest**

The authors declare no conflict of interest.

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