

Parkell Product: Information:

Brush&Bond®

Intro Kit	STOCK NO. S284
Liquid Refill (3ml)	STOCK NO. S285
Activator Microbrush® Refill (Qty:100)	STOCK NO. S286
Mini/Endo Activator Brush Refill (Qty:100)	STOCK NO. S287

CAUTION: Rx Only

STORE IN A DARK, COOL, LOW HUMIDITY ENVIRONMENT.

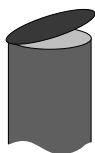
DESCRIPTION:

Parkell's **BRUSH&BOND®** is a self-etching, self-priming, light-cured dental adhesive system that utilizes proven 4-META chemistry to enhance penetration into prepared enamel and dentin surfaces and establish a strong bond to restorative materials. It does not require acid etching of dentin or CUT enamel surfaces before use, but can be pre-etched with phosphoric acid without negative effects. BRUSH&BOND ("B&B") can be cured with light between 350nm and 510nm, using any currently available halogen, PAC, laser or LED dental curing light.

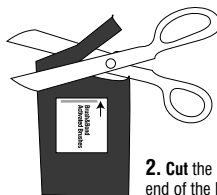
BRUSH&BOND is suitable for bonding directly applied composite resin restorations, sealing and protecting crown preparations, bonding posts and cores with appropriate luting resin cements and desensitizing cold-sensitive cervical dentin and cementum. Because of its minimal film thickness (approx. 5 microns), B&B may also be used as the adhesive for indirectly fabricated restorations luted with resin cement. It is compatible with light-, dual-, and auto-cured resins. A single coat of B&B is sufficient for most restorations.

The Intro Kit contains a single bottle of liquid resin and specially designed "activator brushes" which contain chemistry to ensure complete polymerization. BRUSH&BOND Activator Brushes are available in two sizes. The original size "Activator Microbrush®" is provided in the BRUSH&BOND Intro Kit or as a refill (Stock No. S286). The longer, narrower "Mini/Endo Activator Brushes" (Stock No. S287/available separately) are excellent for use in small cavity preparations or endodontic post holes. B&B must ALWAYS be activated with one of our special brushes before use. After activation, it can be applied to the tooth with our brushes, or any appropriate dental instrument.

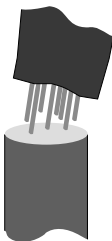
BEFORE USING THE KIT:



1. **Open** the back of the dispensing tube (the non-perforated cap). Remove the bag containing the Microbrush® activators.



2. **Cut** the indicated end of the bag.



3. **Empty** the brushes back into the tube (brush handle downward) and replace the cap.



4. **TO REMOVE A BRUSH** - Hold the tube vertically with the perforated cap downward. If a brush handle does not slide out of the hole, tap the side of the tube until a brush handle emerges. (Do not shake up and down.) When the tube is almost empty, it may be easier to simply remove the cover.

DIRECTIONS FOR RESTORATIVE USE, AS A POST/CORE ADHESIVE, OR A DESENSITIZER:

1. Rubber dam application is recommended.
2. Cut cavity prep, or pumice sensitive cervical area. Rinse with clean water and air dry as usual.
ETCHING NOTE: BRUSH&BOND will bond to dentin and CUT enamel without etching. However, bond strength to CUT enamel surfaces or to sclerotic or root dentin may be enhanced by a short (5-10s) acid etch with phosphoric acid prior to application. UNCUT enamel **MUST** be etched with phosphoric acid for approximately 15 sec. prior to application.
3. Dispense 1-3 drops of BRUSH&BOND Liquid (Stock No. S285) into the mixing well provided and stir for about 2 seconds with an "Activator Microbrush®" (Stock No. S286), or a "Mini/Endo Activator Brush" (Stock No. S287). B&B brushes contain a chemical activator critical to the success of the bonding procedure.

DO NOT substitute standard Microbrushes® or other brushes during this activation step, because they will NOT activate the liquid! Our brushes are for a single activation only.

To activate another portion of liquid, you must use a new brush.

4. Activated B&B liquid in the mixing well should be covered and used within 3 minutes.
5. Apply activated liquid onto prepared tooth surfaces and keep moist with liquid for 20 seconds.
6. Evaporate the B&B solvents with a gentle air stream for 10 seconds.
7. Light-cure the remaining B&B resin with any dental curing light, following these guidelines:
 - a. Plasma Arc Curing (PAC) Light - 3 sec.
 - b. Halogen Light - 5 sec.
 - c. Light Emitting Diode (LED) Light - 10 sec.
 - d. High Intensity LED Light - 5 sec.
8. Place restoration. If using B&B as a desensitizer, air test and reapply if needed.

DIRECTIONS FOR USE ON PREPARED TEETH AS A PREP SEALANT:

1. Cut your prep, take your impression, and fabricate your temporary BEFORE B&B is applied.
2. Clean off any residual uncured temporary resin from the inside of the temp and the outside of the prepped tooth with acetone or ethyl alcohol. Rinse prep with water before the solvent cleaner evaporates, and gently dry with air.
3. NOW apply and cure the B&B to the prep as described above.
4. Lubricate the coronal $\frac{3}{4}$ of the prep with a water-soluble lubricant (eg. K-Y), leaving only the margin clean.
5. Cement the temp with a non-eugenol cement or a resin cement like Parkell's E.T.C.™ Easy Temporary Cement (Stock No. S255). Remove the excess cement.
6. On the day of insertion, remove the temp and any residual cement. Scrub the prep clean with a cotton pledget soaked in acetone or Parkell's Cavidry (Stock No. HS099), or with phosphoric acid gel on a rotary brush or cup for 10 seconds. Follow either with a re-hydrating water rinse and lightly air dry.
7. Rejuvenate the B&B surface by applying and curing a fresh coat of B&B as instructed above, and lute with a resin cement or a resin-containing glass ionomer cement.

PRECAUTIONS:

DO NOT STORE BRUSH&BOND IN A REFRIGERATOR WHERE FREEZING MAY OCCUR. FREEZING WILL CAUSE PHASE SEPARATION, WHICH WILL DESTROY THE PRODUCT.

Store in a dark, cool, low-humidity environment.

Avoid contamination of product. Do not mix components with those of other materials. Do not return dispensed components to their original container. Dispose of leftover material properly. Liquid contains acetone, which is flammable. AVOID OPEN FLAME, and use in well ventilated areas.

Material is acidic. Contact with oral mucosa may cause transitory whitening, which will pass within a day. Use of rubber dam, proper intra-oral evacuation and post-operative water rinsing helps prevent this. Protect patient's eyes when using all dental materials.

WARNINGS:

Uncured BRUSH&BOND is NOT for internal consumption. This material is **CONTRAINDICATED** for use on or by persons who are methacrylate sensitive.

WARRANTY:

Parkell will replace defective material. **This warranty is in lieu of all warranties of merchantability, fitness for purpose or other warranties, express or implied.** Parkell does not accept liability for any loss or damage, direct, consequential or otherwise, arising out of the use of or the inability to use the product herein described. Before using, the user shall determine the suitability of the product for its intended use and the user assumes all risk and liability whatsoever in connection herewith.



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MSDS No. S285		MATERIAL SAFETY DATA SHEET		PAGE 1 OF 2
SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION				
PARKELL, INC. 3000 Executive Drive Edgewood, NY 11717 PRODUCT NAME: BRUSH & BOND LIQUID				
Company Telephone Number: (631) 249-1134 24-Hour Emergency Phone: InfoTrac 1-800-535-5053 MSDS NO.: S285				
SECTION 2 – COMPOSITION INFORMATION ON INGREDIENTS				
HAZARDOUS COMPONENTS	CAS NUMBER	PEL	TLV	%
Methyl Methacrylate (MMA)	80-62-6			
4-methacryloxyethyltrimellitic Acid Anhydride (4META)	70293-55-9			
Poly-oxyethylene (meth) acrylate	998-77-9			
2-hydroxyethyl Methacrylate (HEMA)	67-64-1			
Acetone				
SECTION 3 – HAZARDS IDENTIFICATION				
EMERGENCY OVERVIEW: Highly flammable (F+), irritant (Xi) liquid. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Heating, sunlight may cause explosive polymerization.				
POTENTIAL HEALTH EFFECTS				
EYES:	May cause irritation and possible corneal injury.			
SKIN:	May cause irritation, redness. Persons with known sensitivity to methacrylate may show allergic contact dermatitis.			
INHALATION:	Inhalation of high concentration may cause central nervous system effects characterized by headache, dizziness, unconsciousness and coma. May cause respiratory tract irritation.			
INGESTION:	May cause irritation of the digestive tract. May cause central nervous system depression. Symptoms may include: headache, excitement, fatigue, nausea, vomiting, stupor, and coma.			
CHRONIC EFFECTS:	Repeated or prolonged contact may cause skin sensitization. Prolonged or repeated inhalation may cause kidney and lung damage. The substance may have effects on the nervous system.			
SIGNS & SYMPTOMS:				
CARCINOGENICITY:	☐ NO	☐ IARC MONOGRAPHS?	☐ NA	☐ OSHA?
SECTION 4 – FIRST-AID MEASURES				
INHALATION:	Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.			
EYES:	Immediately flush with flowing water for at least 15 minutes. Get medical attention.			
SKIN:	Wash with soap and plenty of water. Get medical attention if irritation develops or persists.			
INGESTION:	NOTE TO PHYSICIANS:			

SECTION 5 – FIRE-FIGHTING MEASURES		
FLASH POINT (TCO):	-18°C (acetone), FLAMMABLE LIMIT (air, % by vol.) (acetone) UPPER: 2 vol%, LOWER: 13 vol%	
FLAMMABILITY CLASSIFICATION (CFR 1910.1200):	Highly flammable	
EXTINGUISHING MEDIA:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam.	
FIRE FIGHTING INSTRUCTIONS:	During emergency conditions, over-exposure to thermal decomposition products may cause health hazard. Self-contained breathing apparatus should be worn.	
UNUSUAL FIRE & EXPLOSION HAZARDS:	Toxic gases such as carbon monoxide may be released in a fire.	
HAZARDOUS COMBUSTION PRODUCTS:	420°C (MMA)	
AUTOIGNITION TEMPERATURE:	420°C (MMA)	
SECTION 6 – ACCIDENTAL RELEASE MEASURES		
PERSONAL PRECAUTION:	For skin protection wear impervious protective gloves and clothing. For eye protection use safety goggles or a full-face shield.	
ENVIRONMENTAL PRECAUTIONS:	May be hazardous to the environment. Special attention should be given to water.	
METHODS FOR CLEAN-UP:	In case material is released or spilled, remove all ignition sources, and ventilate the area of leak or spill. Collect spilled liquid in sealable containers as far as possible. Do NOT use high pressure water or inert absorbent and remove to safe place. Do NOT wash away into sewer.	
SECTION 7 – HANDLING AND STORAGE		
HANDLING:	Observe normal warehouse handling procedures. Protect against physical damages. Use in a well-ventilated place away from all ignition sources.	
STORAGE:	Store in a cool (between 5°C and 30°C), dry and dark place, but do NOT freeze. Store away from direct	

MSDS No. S286	MATERIAL SAFETY DATA SHEET	PAGE 1 OF 2
SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION		
PARKELL, INC. 300 Executive Drive Edgewood, NY 11717 PRODUCT NAME: BRUSH & BOND BRUSHES		
Company Telephone Number: (631) 249-1134 24-Hour Emergency Phone: InfoTrac 1-800-535-5053		MSDS No. S286
SECTION 2 – COMPOSITION INFORMATION ON INGREDIENTS		
HAZARDOUS COMPONENTS	CAS NUMBER	PEL TLV %
Nylon 6,6	—	—
Ammonium Sulfinate	Proprietary	—
Aromatic amine	N/A	—
SECTION 3 – HAZARDS IDENTIFICATION		
EMERGENCY OVERVIEW: POTENTIAL HEALTH EFFECTS: EYES: Combustible solid. SKIN: May cause irritation and possible corneal injury. INHALATION: May cause irritation, redness. INGESTION: No hazard in ordinary use. CHRONIC EFFECTS: May cause irritation of the digestive tract. SIGNS & SYMPTOMS: Not known. CARCINOGENICITY: ☐ NTP? ☐ IARC MONOGRAPHS? ☐ OSHA?		
SECTION 4 – FIRST-AID MEASURES		
INHALATION: No specific treatment is necessary by inhalation of a small amount. If exposed to excessive levels of dust, and/or irritation occurs, cough or other symptoms develop, if breathing is difficult, give oxygen and medical attention. EYES: Immediately flush with flowing water for at least 15 minutes. Get medical attention. SKIN: Flush with soap and plenty of water. Get medical attention if irritation develops or persists. INGESTION: Promptly drink several glasses of water or milk to dilute. Get medical attention. NOTE TO PHYSICIANS:		
SECTION 5 – FIRE-FIGHTING MEASURES		
FLASH POINT (TCC): >250°C FLAMMABLE LUMP (air, % by vol.) UPPER: NE LOWER: NE FLAMMABILITY CLASSIFICATION (CFR 1910.1200): Combustible. Concentration of the dust may be explosive. EXTINGUISHING MEDIA: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. FIRE FIGHTING INSTRUCTIONS: For large fires, use water spray, fog, or alcohol-resistant foam. UNUSUAL FIRE & EXPLOSION HAZARDS: During emergency conditions, over-exposure to thermal decomposition products may occur. Toxic gases such as carbon monoxide, oxides of nitrogen, hydrogen cyanide, acrylonitrile, acetaldehyde or sulfur oxide may be released in a fire. HAZARDOUS COMBUSTION PRODUCTS: Combustible. Concentration of the dust may be explosive.		
SECTION 6 – ACCIDENTAL RELEASE MEASURES		
PERSONAL PRECAUTION: For skin protection wear impervious protective gloves. For eye protection use safety goggles. ENVIRONMENTAL PRECAUTIONS: Not known. METHODS FOR CLEAN-UP: In case material is released or spilled, sweep up and place spill in a chemical waste container. Flush spill area with water.		
SECTION 7 – HANDLING AND STORAGE		
HANDLING: Observe normal warehouse handling procedures. Protect against physical damages. Use in a ventilated place. Wash hands thoroughly after handling. STORAGE: Keep tightly closed. Store in a cool, dry and dark place, preferably in a refrigerator. Store away from direct sunlight. Keep away from sources of ignition.		
SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION		
ENGINEERING CONTROLS: General and/or local ventilation should be sufficient. Eye wash station near work area. EXPOSURE PROTECTION: Use safety glasses. SKIN PROTECTION: Use impervious protective gloves to prevent skin contact. RESPIRATORY PROTECTION: None required during ordinary use of this product. EXPOSURE GUIDELINES: Not known.		

MSDS No. S286	MATERIAL SAFETY DATA SHEET	PAGE 2 OF 2
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES		
APPEARANCE AND ODOR: White solid coated on brush tuft. No odor. BOILING POINT: N/A SPECIFIC GRAVITY (H ₂ O = 1): N/A VAPOR PRESSURE: N/A PERCENT VOLATILES: N/A VAPOR DENSITY (Air = 1): N/A EVAPORATION RATE (Butyl Acetate = 1): N/A SOLUBILITY IN WATER: N/A		
SECTION 10 – STABILITY AND REACTIVITY		
STABILITY: Hygroscopic. Hazardous Polymerization: Will not occur. Reactivity: High temperature (above 30°C), high humidity, direct sunlight and ignition sources. Incompatibility: None. Hazardous Decomposition Products: Strong oxidizing agents. The dust listed in Section 5 at left may form when heated to decomposition.		
SECTION 11 – TOXICOLOGICAL INFORMATION		
HEALTH HAZARDS (immediate, delayed, acute, and chronic): Contact with eyes and skin may cause irritation. TOXICITY: LDLO (Oral/rat): 3,200 mg/kg (Aromatic Sodium Sulfinate)		
SECTION 12 – ECOLOGICAL INFORMATION		
This material is not expected to be significantly hazardous to the environment.		
SECTION 13 – DISPOSABLE CONSIDERATIONS		
Danger in disposal: Should be handled as hazardous waste. Disposal method: Incinerate in accordance with all applicable environmental control regulations, or landfill in an industrial landfill which has approval to receive such wastes. Waste must be disposed of in accordance with federal, state, and local environmental control regulations.		
SECTION 14 – TRANSPORT INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)		
Precautions for transport: Observe normal care for transportation of sophisticated health care materials. Cover from rain, direct sunlight, heat and contaminating materials. UN: ----- IMDG: ----- ICAO/IATA: -----		
SECTION 15 – REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)		
SECTION 16 – OTHER INFORMATION		
NFPA CODES: HEALTH - FLAMMABILITY - REACTIVITY - WORK/HYGIENE PRACTICES: Wash hands before eating, drinking or smoking. DATE PREPARED: 03/06/12 PREPARED BY: R. Burke		

To the best of our knowledge, the information on this MSDS sheet is accurate. However, the information is provided without any warranty, expressed or implied, regarding its correctness or completeness. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This information is not warranted to be whether originating with the company or not.