

3M™ VHB™ Surface Preparation Guide

Surface	Common Concerns	Surface cleaning & preparation	Primer required:
Steel, Galvanized Steel, Aluminum	Surface oxidation, oil.	<ol style="list-style-type: none"> 1. Clean with HIPA 300 . For heavy oils, clean with 3M™ spray 700. 2. Lightly abrade with Scotchbrite 7447 maroon hand pad or Roloc™ equivalent. 3. Clean with HIPA 300 	None required
Copper, Brass, Bronze	Oxidation after bonding	<ol style="list-style-type: none"> 1. Clean with HIPA 300. For heavy oils, clean with 3M™ spray 700. 2. Lightly abrade with Scotchbrite 7447 maroon hand pad or Roloc™ equivalent. 3. Clean with HIPA 300 	Required Acrylic Lacquer or varnish preferred, Primer 94 can be used as a substitute
Concrete, Brick	Non-unified or rough surface, moisture	<ol style="list-style-type: none"> 1. Remove dust & loose debris with a wire brush, remove all dust with a fine brush or high pressure air. 	Required: 3M™ Rubber and Vinyl Spray 80 or suitable acrylic paint. Heavily textured surfaces may need to be rendered.
Glass, Stone, Ceramic Tile	High humidity, moisture	<ol style="list-style-type: none"> 1. Clean with hIPA 300 to remove bulk contaminants. 2. Clean with AP-115, wiping solution onto the glass , followed by wiping off to remove excess. Ensure the glass does not appear cloudy. Refer AP-115 Technical datasheet for further details. 	<p>Required in humid environments: Step 2 adjacent is essential for outdoor use or humid environments such as bathrooms. If AP-115 or other silane coupling agent is not available , apply 3M primer 94 and allow 15 minutes to dry.</p> <p>Indoor , non humid environments- none required.</p>

Note : - If hIPA 300 is not available , a 70:30 mixture of pure isopropyl alcohol (IPA): water can be used. Be sure to keep containers sealed to prevent excess IPA evaporation.

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Wood (soft, hard particle board, etc.)		Weak fiber layer on surface (e.g., low surface strength)	<ol style="list-style-type: none"> Sand with coarse abrasive to remove weak fibers, remove all dust with a fine brush or high pressure air. 	Required: 3M™ Rubber and Vinyl Spray 80 or 3M™ Fastbond™ 30 or Contact Adhesive or paint with Acrylic or Urethane paint.
Plastics:	Polyolefin (ie, Polyethylene, polypropylene)	Low adhesion	<ol style="list-style-type: none"> Clean with HIPA 300 If adhesion is still poor, try first abrading with Maroon Scotchbrite™ and clean again 	Required : 3M™ Primer 94 (additional surface preparation may also be required)
	Non-olefin	Additives and low adhesion	<ol style="list-style-type: none"> For heavy contaminants & oils, clean with 3M™ spray 700. If mold release agents present, clean with 3M™ prep-solvent 70 . Clean with HIPA 300 If adhesion is still poor, try first abrading with Maroon Scotchbrite™ 	Optional : Primer 94 for lower surface energy plastics such as ABS, HIPS
Polyurethane (Molded or Rubber)		Mold release agents	<ol style="list-style-type: none"> If mold release agents present, clean with 3M™ prep-solvent 70 Clean with HIPA 300 If adhesion is still poor, try first abrading with Maroon Scotchbrite™ 	Optional Scotch-Grip™ Plastic Adhesive 1099 to improve adhesion
Fiberglass	Rough side	Low adhesion ,poor surface contact	<ol style="list-style-type: none"> Sand smooth with coarse 200 grit abrasive. Remove all dust with a fine brush or high pressure air. Clean with 700 Cleaner 	Required : 3M™ Primer 94 or Spray 80 contact adhesive
	Gelcoat	Mold release, low adhesion	<ol style="list-style-type: none"> Clean with 700 cleaner . 	Optional : Primer 94 if still low adhesion

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Rubber: Neoprene, Santoprene, natural rubber		Migrating oils Low adhesion	<ol style="list-style-type: none"> 1. Clean with 3M™ spray 700 2. Abrade with Scotchbrite 7447 3. Clean with 3M™ spray 700 <p>For large volumes of heavily waxed rubber , it may be more practical to clean with a less volatile, water soluble cleaner . An example is scrubbing with Printers Screenwash (Glycol ether mixture) and a Scotchbrite 7447 pad, followed by a rinse clean with warm running water. Allow rubber to air dry, then follow up clean with IPA .</p>	Required :Plastic Adhesive 1099 or 3M™ Primer 94
EPDM			<ol style="list-style-type: none"> 1. For heavy contaminants & oils, clean with 3M™ spray 700. 2. Clean with HIPA 300 	Required :Plastic Adhesive 4799 or 3M™ Primer 94
Paints	Brushable or Spray paint	Poor adhesion	<ol style="list-style-type: none"> 1. Clean with HIPA 300 2. If adhesion is still poor, try Primer and or first abrading with Maroon Scotchbrite™ 	Optional : 3M™ Primer 94
	Powder Coated Paints	Waxy layer, low adhesion	<ol style="list-style-type: none"> 1. Lightly abrade with Maroon Scotchbrite™ 2. Clean with HIPA 300 <p><i>Note : VHB™ 5952 may be suitable for some surfaces without the need for abrasion. The end user should evaluate suitability.</i></p>	
Anodised Aluminum		Low adhesion	<ol style="list-style-type: none"> 1. Clean with HIPA 300 2. If adhesion is still poor, try Primer and or first abrading with Maroon Scotchbrite™ 	Optional : 3M™ Primer 94
Flexible PVC (Vinyl)		Plasticizer migration	<ol style="list-style-type: none"> 1. If mold release agents present, clean with 3M™ prep-solvent 70 2. Clean with HIPA 300 	Required for non plasticizer resistant tapes : Spray 80 Optional Primer 94 if low adhesion

Note : 3M™ VHB™ wipes can be used in place of 3M™ hIPA clean 300.