Bulldog Adhesion Promoter System

**PABC1 24**
Abrasive Cleaner

**GTPO1 23, QTPO1 23**
Adhesion Promoter (liquid)

**ETPO1 23B**
Adhesion Promoter (aerosol)

Bulldog® Adhesion Promoter is the premier adhesion promoter for the auto body collision repair market. Bulldog® is a single-component product that combines an adhesion promoter and a flex agent in one. It is fast drying and provides superior adhesion on all flexible and rigid plastic parts.

**Features:**
- No mixing required – Ready to spray
- Promotes adhesion on most plastic surfaces, including TPO, polypropylene, and SMC
- Adhesion Promoter and Flex Agent in one
- Dries clear in 5 minutes
- Unused product can be poured back into the can
- Tint with basecoat for visible coverage
- Designed for spot repair – no need for a spraygun

**Benefits:**
- Makes Paint Stick: Promotes adhesion on most plastic surfaces, including TPO, polypropylene, and SMC
- Reduces Material Cost: Adhesion Promoter and Flex Agent in one
- Reduces Painting Time: Dries clear in 5 minutes
- No Waste: Unused product can be poured back into the can
- Tintable: Tint with basecoat for visible coverage
- Convenient Aerosol: Designed for spot repair – no need for a spraygun

**Compatible Coatings:**
All solvent-based urethane, epoxy, or acrylic lacquers, primers, sealers and basecoats.

**Compatible Surfaces:**
All common automotive plastic substrates, as well as, glass, chrome, aluminum, fiberglass, rubber, vinyl, and painted surfaces. Bulldog is suitable for ground effects, new flexible and rigid bumpers, as well as plastic interior and exterior parts.

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**GTPO123/QTPO123**

**DIRECTIONS FOR USE:**

1. Shake well and filter before each use to secure uniform mixture.
2. Clean all areas to be painted with Bulldog Abrasive Cleaner. Rinse thoroughly with water and allow to dry. Be sure not to apply any solvent cleaners after this point.
4. Using a spray gun, apply one even, medium-wet coat. 
   **NOTE:** If two coats are needed, apply an even, light mist coat. Wait 3-5 minutes, and apply a second coat.
5. Wait 5 to 10 minutes before applying the next coating.

**Drying Times**

| Between Coats: | 3 -5 minutes |
| Dry to Next Coating: | 5-10 minutes |

**Tinting:**
Mix 90% Bulldog with 10% basecoat for visible color coverage.

**Flex Agent:**
- Ratio 1:4 Bulldog with basecoat
- Ratio 1:3 Bulldog with clearcoat

**Note:** Bulldog is effective up to 24 hours. If the sprayed part is left overnight, the basecoat can be applied with no issue. If the part is left longer than 24 hours it needs to be scuffed and tacked again. Apply 1 light coat of Bulldog before applying basecoat.

**Equipment Cleaning:** All tools and spills should be cleaned immediately with lacquer thinner. Care should be taken to keep lacquer thinner away from freshly finished surfaces. Clean spray gun according to manufacturer's instructions.

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* Bulldog Adhesion Promoter TPO 123 is restricted in California under SCAQMD Rule 1151. ETPO123B Bulldog Adhesion Promoter Aerosol is NOT affected by Rule 1151, and can be used and sold in CA.

* Bulldog VOC Compliant Adhesion Promoter TPO 125 is compliant in CA under SCAQMD Rule 1151.

**NOTE:** Always apply basecoats and clearcoats according to manufacturer's instructions.
Bulldog Adhesion Promoter System

PABC124
Abrasive Cleaner

GTP0123, QTPO123
Adhesion Promoter (liquid)

ETPO123B
Adhesion Promoter (aerosol)

Bulldog® Adhesion Promoter is the premier adhesion promoter for the auto body collision repair market. Bulldog® is a single-component product that combines an adhesion promoter and a flex agent in one. It is fast drying and provides superior adhesion on all flexible and rigid plastic parts.

Features: Benefits:

One Component: No mixing required – Ready to spray
Makes Paint Stick: Promotes adhesion on most plastic surfaces, including TPO, polypropylene, and SMC
Reduces Material Cost: Adhesion Promoter and Flex Agent in one
Reduces Painting Time: Dries clear in 5 minutes
No Waste: Unused product can be poured back into the can
Tintable: Tint with basecoat for visible coverage
Convenient Aerosol: Designed for spot repair – no need for a spraygun

Compatible Coatings:
All solvent-based urethane, epoxy, or acrylic lacquers, primers, sealers and basecoats.

Compatible Surfaces:
All common automotive plastic substrates, as well as, glass, chrome, aluminum, fiberglass, rubber, vinyl, and painted surfaces. Bulldog is suitable for ground effects, new flexible and rigid bumpers, as well as plastic interior and exterior parts.

* Bulldog Adhesion Promoter TPO123 is restricted in California under SCAQMD Rule 1151. ETPO123B Bulldog Adhesion Promoter Aerosol is NOT affected by Rule 1151, and can be used and sold in CA.

* Bulldog VOC Compliant Adhesion Promoter TPO125 is compliant in CA under SCAQMD Rule 1151.

NOTE: Always apply basecoats and clearcoats according to manufacturer’s instructions.

DIRECTIONS FOR USE:

1. Shake well and filter before each use to secure uniform mixture.
2. Clean all areas to be painted with Bulldog Abrasive Cleaner. Rinse thoroughly with water and allow to dry. Be sure not to apply any solvent cleaners after this point.
4. Using a spray gun, apply one even, medium-wet coat. NOTE: If two coats are needed, apply an even, light mist coat. Wait 3-5 minutes, and apply a second coat.
5. Wait 5 to 10 minutes before applying the next coating.

Drying Times
Between Coats: 3 -5 minutes
Dry to Next Coating: 5-10 minutes
Tinting: Mix 90% Bulldog with 10% basecoat for visible color coverage.
Flex Agent: Ratio 1:4 Bulldog with basecoat
Ratio 1:3 Bulldog with clearcoat

Note: Bulldog is effective up to 24 hours. If the sprayed part is left overnight, the basecoat can be applied with no issue. If the part is left longer than 24 hours it needs to be scuffed and tacked again. Apply 1 light coat of Bulldog before applying basecoat.

Equipment Cleaning: All tools and spills should be cleaned immediately with lacquer thinner. Care should be taken to keep lacquer thinner away from freshly finished surfaces. Clean spray gun according to manufacturer’s instructions.

Carefully read all cautions on the MSDS before use. Protect hands with solvent-resistant gloves and eyes with chemical splash goggles. If the work area is not well ventilated you must use a properly fitted and maintained NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors.

* Bulldog Adhesion Promoter TPO123 is restricted in California under SCAQMD Rule 1151. ETPO123B Bulldog Adhesion Promoter Aerosol is NOT affected by Rule 1151, and can be used and sold in CA.

* Bulldog VOC Compliant Adhesion Promoter TPO125 is compliant in CA under SCAQMD Rule 1151.

NOTE: Always apply basecoats and clearcoats according to manufacturer’s instructions.
TECHNICAL DATA: ETP0123B
Appearance: Dries to a Class A water-white finish
Vapor Density: Heavier than air
Percent Volatile: 90.4% by weight
Flash Point: N/A
Flash Point of Concentrate: 42˚F
CPSC Flammability Classification: Flammable
VOC Category (Max Allowable V.O.C.): Polyolefin Adhesion Promoter (2.5 MIR)
Actual V.O.C.: 2.47 MIR
MAX Vapor Pressure of the V.O.C.: N/A
Storage: Replace overcap on container after each use. Contents under pressure. Do not puncture, incinerate, or store above 120˚F. Exposure to heat or prolonged exposure to sun can cause bursting.
Coverage: up to 100 sq. ft. per can, at 1 mil wet
Shelf Life: 2 years from date of manufacture, in an unopened container.
DOT: UN 1950, Aerosols, flammable, 2.1, Limited Quantity (Level 3 Aerosol)
HAPS: Toluene, Xylene, Ethyl Benzene, Styrene
Density: N/A
Boiling Range: N/A

TECHNICAL DATA: GTP0123/QTPO123
Appearance: liquid, hazy, light pink to light yellow, mobile, dries to a Class A water-white finish
Vapor Density: Heavier than air
Percent Volatile: 82.75% by weight
Flash Point: 32˚F
Flash Point of Concentrate: N/A
CPSC Flammability Classification: Flammable
VOC Category (Max Allowable V.O.C.): Specialty Coatings (National/EPA: 840 g/L CA*: 540 g/L)
Actual V.O.C.: 768 g/L 6.23 lbs/gal 84.2% by weight
MAX Vapor Pressure of the V.O.C.: N/A
Storage: Store between 32˚F and 95˚F, in the original container.
Coverage: up to 750 sq. ft. per gallon
Shelf Life: 2 years from date of manufacture, in an unopened container.
DOT: UN 1866, Resin Solution, Flammable, 3, PGII
HAPS: Toluene, Xylene, Ethyl Benzene, Styrene
Density: 7.5 lbs/gal
Boiling Range: 132˚ - 380˚F

* Note: Several CA air districts regulate non-aerosol automotive coatings. The CA limit listed is the most restrictive for those districts in the state.
**Bulldog Adhesion Promoter System**

**ETPO 123B**

**DIRECTIONS FOR USE:**

Carefully read all cautions on the MSDS before use. Protect hands with solvent-resistant gloves and eyes with chemical splash goggles. If the work area is not well ventilated you must use a properly fitted and maintained NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors.

**General Repair**

1. Clean all areas to be painted with Bulldog Abrasive Cleaner. Rinse thoroughly with water and allow to dry. Be sure not to apply any solvent cleaners after this point.
2. Blow and tack surface.
3. Shake gently for one minute to ensure a uniform mixture.
4. Hold can in an upright position, with arrow on button pointing away from you, approximately 12 inches from the surface.
5. Spray the surface with an even, light mist coat. Wait 3 to 5 minutes and apply a second light coat, if needed.
6. Wait 5 to 10 minutes before applying the next coating.

**Spot & Panel Repair:** Bulldog can be used before epoxy, urethane or polyester fillers to promote adhesion to polypropylene and TPO bumpers. Apply primers to all metal and filler areas. Sand all areas to be painted with 320 grit or finer. Apply 2 medium coats Bulldog, allowing 3-5 minutes flash between coats. Allow 5 to 10 minutes dry time before applying basecoat.

**Drying Times:**

- Between Coats: 3 - 5 minutes
- Dry to Next Coating: 5 - 10 minutes

**Note:** Bulldog is effective up to 24 hours. If the sprayed part is left overnight, the basecoat can be applied with no issue. If the part is left longer than 24 hours it needs to be scuffed and tacked again. Apply 1 light coat of Bulldog before applying basecoat.

**Equipment Cleaning:** All tools and spills should be cleaned immediately with lacquer thinner. Care should be taken to keep lacquer thinner away from freshly finished surfaces.

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**Bulldog Adhesion Promoter System**

**PABC 124**

**DIRECTIONS FOR USE:**

1. Shake well.
2. Apply a 3/8” bead along face of part. Work the cleaner into the surface with a damp green or gray scuff pad.
3. Rinse thoroughly with plenty of water and wipe dry with a clean cloth.
4. Once dry, do not wipe the surface with any type of solvent.
5. To ensure the part is ready for Bulldog Adhesion Promoter application, mist a small area with water. If sheeting occurs, dry the surface and proceed.
6. If water beads up, repeat cleaning as directed above.

**TECHNICAL DATA:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light gray paste</td>
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<tr>
<td>Vapor Density</td>
<td>Heavier than air</td>
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<tr>
<td>Percent Volatile</td>
<td>57% by Weight</td>
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<tr>
<td>Flash Point</td>
<td>None</td>
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<td>CPSC Flammability Classification</td>
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<td>MAX V.O.C.</td>
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<td>MAX Vapor Pressure of V.O.C.</td>
<td>0.1 mm Hg at 20°C</td>
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<td>Storage</td>
<td>Protect from freezing. Store between 32°F and 120°F.</td>
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<tr>
<td>Density</td>
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<td>Shelf Life</td>
<td>2 years from date of manufacture, in an unopened container</td>
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<td>DOT</td>
<td>Compound Cleaning Liquid</td>
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<tr>
<td>HAPS</td>
<td>None</td>
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<tr>
<td>VOC Category</td>
<td>Surface Prep for Coatings Applications</td>
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</tbody>
</table>

**Product Information Effective 07/2010**

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P.O. Box 1679
Memphis, TN 38101
800.238.2672
www.bulldogsticks.com
www.kleanstripauto.com
## Bulldog Adhesion Promoter System

### TECHNICAL DATA: ETPO123B

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<td>Appearance</td>
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<td>Vapor Density</td>
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<td>Percent Volatile</td>
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<td>Flash Point</td>
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<td>Flash Point of Concentrate</td>
<td>42°F</td>
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<td>CPSC Flammability Classification</td>
<td>Flammable</td>
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<td>VOC Category (Max Allowable V.O.C.)</td>
<td>Polyolefin Adhesion Promoter (2.5 MIR)</td>
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<tr>
<td>Actual V.O.C.</td>
<td>2.47 MIR</td>
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<tr>
<td>MAX Vapor Pressure of the V.O.C.:</td>
<td>N/A</td>
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<tr>
<td>Storage</td>
<td>Replace overcap on container after each use. Contents under pressure. Do not puncture, incinerate, or store above 120°F. Exposure to heat or prolonged exposure to sun can cause bursting.</td>
</tr>
<tr>
<td>Coverage</td>
<td>up to 100 sq. ft. per can, at 1 mil wet</td>
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<tr>
<td>Shelf Life</td>
<td>2 years from date of manufacture, in an unopened container.</td>
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<tr>
<td>DOT</td>
<td>UN1950, Aerosols, flammable, 2.1, Limited Quantity (Level 3 Aerosol)</td>
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<td>HAPS</td>
<td>Toluene, Xylene, Ethyl Benzene, Styrene</td>
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<td>Density</td>
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<td>Boiling Range</td>
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### TECHNICAL DATA: GTP123/QTP123

<table>
<thead>
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<th>Property</th>
<th>Value</th>
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<tr>
<td>Appearance</td>
<td>liquid, hazy, light pink to light yellow, mobile, dries to a Class A water-white finish</td>
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<tr>
<td>Vapor Density</td>
<td>Heavier than air</td>
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<tr>
<td>Percent Volatile</td>
<td>82.75% by weight</td>
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<td>Flash Point</td>
<td>32°F</td>
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<tr>
<td>Flash Point of Concentrate</td>
<td>N/A</td>
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<tr>
<td>CPSC Flammability Classification</td>
<td>Flammable</td>
</tr>
<tr>
<td>VOC Category (Max Allowable V.O.C.)</td>
<td>Specialty Coatings (National/EPA: 840 g/L CA*: 540 g/L)</td>
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<tr>
<td>Actual V.O.C.</td>
<td>768 g/L 6.23 lbs/gal 84.2% by weight</td>
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<tr>
<td>MAX Vapor Pressure of the V.O.C.:</td>
<td>30.6 mm Hg at 20°C</td>
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<tr>
<td>Storage</td>
<td>Store between 32°F and 95°F, in the original container.</td>
</tr>
<tr>
<td>Coverage</td>
<td>up to 750 sq. ft. per gallon</td>
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<tr>
<td>Shelf Life</td>
<td>2 years from date of manufacture, in an unopened container.</td>
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<tr>
<td>DOT</td>
<td>UN1866, Resin Solution, Flammable, 3, PGII</td>
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<tr>
<td>HAPS</td>
<td>Toluene, Xylene, Ethyl Benzene, Styrene</td>
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<tr>
<td>Density</td>
<td>7.5 lbs/gal</td>
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<tr>
<td>Boiling Range</td>
<td>132°F - 380°F</td>
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</tbody>
</table>

* Note: Several CA air districts regulate non-aerosol automotive coatings. The CA limit listed is the most restrictive for those districts in the state.

### Product

<table>
<thead>
<tr>
<th>Product</th>
<th>SIZE</th>
<th>PACK</th>
<th>LBS</th>
<th>CUBE FT</th>
<th>LENGTH</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>UPC CODE</th>
<th>PALLET QTY</th>
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<tbody>
<tr>
<td>ETPO123B</td>
<td>15 OZ</td>
<td>12</td>
<td>16</td>
<td>.35</td>
<td>11 1/16</td>
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<td>GTP123</td>
<td>GL</td>
<td>4</td>
<td>36</td>
<td>.762</td>
<td>13 1/16</td>
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<td>10 1/16</td>
<td>0-30192-12325-6</td>
<td>52 cases</td>
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<td>QTP123</td>
<td>QT</td>
<td>6</td>
<td>14</td>
<td>.406</td>
<td>10 9/16</td>
<td>7 1/8</td>
<td>9 5/16</td>
<td>0-30192-12315-7</td>
<td>88 cases</td>
</tr>
</tbody>
</table>
Additional Tips for Using Bulldog Adhesion Promoter

1. Use Bulldog as a mid-coat adhesion promoter, effectively “tying” multiple layers of paint together. Great for use when doing special paint effects, such as flames, two-tone paint jobs, etc. Bulldog will also improve the flop/alignment of metallic pigments in blend-out areas.

2. When using Bulldog as an added flex agent in a clear, be sure to add the Bulldog after the clear has been catalyzed. (Ratio 1:3 Bulldog to mixed clear)

3. Bulldog can be added to primer in a ratio of up to 1:3.

4. Bulldog cannot be mixed with waterborne paint. However, Bulldog can be used in a waterborne system, as long as it is applied underneath the primer. Always follow paint manufacturer's instructions regarding application of waterborne paint systems.

5. Treat bare metal to prevent corrosion. Bare metal and body filler must be primed and dry or wet sanded with 320 grit sandpaper prior to applying Bulldog.

6. Metal primer overspray onto plastic surfaces should be removed, as it can cause paint failure. Bulldog overspray onto plastic is not an issue.

7. Bulldog can be used on interior parts, such as dashboards, kick panels, visors, etc., prior to dyeing or painting. Solvent-based dyes can be mixed with Bulldog (up to 50%) before application.

8. When applying Bulldog over fresh lacquer or uncured acrylics, or applying lacquers over Bulldog, allow extra dry time between light coats.

9. Bulldog should not be used on Lexan® or polystyrene surfaces.

10. Bulldog is not compatible with enamel paints.

11. Abrading of the substrate is essential for successful coating application. We recommend the use of Bulldog Abrasive Cleaner on plastics, but even gentle scuffing with a red or grey scuff pad will greatly increase the bite of the coating. Bare metals, OEM painted surfaces, and previous repair coats should all be abraded prior to repainting.
ETPO 123B
DIRECTIONS FOR USE:

Carefully read all cautions on the MSDS before use. Protect hands with solvent-resistant gloves and eyes with chemical splash goggles. If the work area is not well ventilated you must use a properly fitted and maintained NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors.

General Repair
1. Clean all areas to be painted with Bulldog Abrasive Cleaner. Rinse thoroughly with water and allow to dry. Be sure not to apply any solvent cleaners after this point.
2. Blow and tack surface.
3. Shake gently for one minute to ensure a uniform mixture.
4. Hold can in an upright position, with arrow on button pointing away from you, approximately 12 inches from the surface.
5. Spray the surface with an even, light mist coat. Wait 3 to 5 minutes and apply a second light coat, if needed.
6. Wait 5 to 10 minutes before applying the next coating.

Spot & Panel Repair: Bulldog can be used before epoxy, urethane or polyester fillers to promote adhesion to polypropylene and TPO bumpers. Apply primers to all metal and filler areas. Sand all areas to be painted with 320 grit or finer. Apply 2 medium coats Bulldog, allowing 3-5 minutes flash between coats. Allow 5 to 10 minutes dry time before applying basecoat.

Drying Times:
- Between Coats: 3 - 5 minutes
- Dry to Next Coating: 5 - 10 minutes

Note: Bulldog is effective up to 24 hours. If the sprayed part is left overnight, the basecoat can be applied with no issue. If the part is left longer than 24 hours it needs to be scuffed and tacked again. Apply 1 light coat of Bulldog before applying basecoat.

Equipment Cleaning: All tools and spills should be cleaned immediately with lacquer thinner. Care should be taken to keep lacquer thinner away from freshly finished surfaces.

PABC 124
DIRECTIONS FOR USE:

1. Shake well.
2. Apply a 3/8” bead along face of part. Work the cleaner into the surface with a damp green or gray scuff pad.
3. Rinse thoroughly with plenty of water and wipe dry with a clean cloth. Once dry, do not wipe the surface with any type of solvent.
4. To ensure the part is ready for Bulldog Adhesion Promoter application, mist a small area with water. If sheeting occurs, dry the surface and proceed. If water beads up, repeat cleaning as directed above.

TECHNICAL DATA:

<table>
<thead>
<tr>
<th>Property</th>
<th>PABC 124</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light gray paste</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>57% by Weight</td>
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<tr>
<td>Flash Point</td>
<td>None</td>
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<td>CPSC Flammability Classification</td>
<td>Non-Flammable, Water-Based</td>
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<td>MAX V.O.C.</td>
<td>25 grams/liter</td>
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<tr>
<td>MAX Vapor Pressure of V.O.C.</td>
<td>0.1 mm Hg at 20°C</td>
</tr>
<tr>
<td>Storage</td>
<td>Protect from freezing. Store between 32°F and 120°F.</td>
</tr>
<tr>
<td>Density</td>
<td>10.1 lb/gal</td>
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<tr>
<td>Shelf Life</td>
<td>2 years from date of manufacture, in an unopened container</td>
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<tr>
<td>DOT</td>
<td>Compound Cleaning Liquid</td>
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<td>HAPS</td>
<td>None</td>
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<tr>
<td>VOC Category</td>
<td>Surface Prep for Coatings Applications</td>
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</tbody>
</table>

Product Information Effective 07/2010