**GENERAL DESCRIPTION**

A versatile, ultra-durable water-borne acrylic, *Break-Through!*, is formulated to bond to some of the most difficult substrates including fiberglass, laminate, and many plastics. The interior/exterior satin finish offers very fast dry and outstanding early block resistance for increased productivity with less down time. *Break-Through!* provides hardness similar to or better than standard alkyds with a low VOC formula, but maintains flexibility to endure extreme bends and deformation without cracking and peeling. *Break-Through!* is ideal for doors, windows, cabinets, shelving, hand rails, fixtures, trim, wood and concrete floors.

**APPLICATION INFORMATION (continued)**

Permissible temperatures during application:
- Material: 50 to 90°F (10 to 32°C)
- Ambient: 50 to 90°F (10 to 32°C)
- Substrate: 50 to 90°F (10 to 32°C)

**CONFORMANCE STANDARDS**

- VOC Compliant in all regulated areas
- Can help earn LEED® 2009 credits

**APPLICATION INFORMATION**

Stir thoroughly before using and occasionally when in use. Prime all necessary surfaces with an appropriate PPG primer prior to application of the product. When using more than one container of the same color, intermix to ensure color uniformity. Do not mix with solvent-type paints or with paint solvents. USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN. Read all label and Material Safety Data Sheet (MSDS) information prior to use. MSDS are available through our website or by calling 1-800-441-9695.

**Application Equipment:** Apply with a high quality synthetic brush, roller, paint pad, or by spray equipment. Where necessary, apply a second coat.

**Airless Spray:** Pressure 2000 psi, tip 0.009” - 0.013”. Best results are achieved using a fine finish tip. Spray equipment must be handled with due care and in accordance with manufacturer’s recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury.

**Brush:** High quality polyester/nylon brush

**Roller:** 3/16” - 3/8” nap roller cover.

**Thinning:** No thinning required for airless or air-assisted airless application. Reduce 5-10% with clean water for conventional spray, HVLP and brush applications.

**DISPOSAL:** Contact your local environmental regulatory agency for guidance on disposal of unused product. Do not pour down a drain or storm sewer.

**FEATURES / BENEFITS**

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low VOC and low odor</td>
<td>Meets the most stringent regulatory standards</td>
</tr>
<tr>
<td>Outstanding block resistance</td>
<td>Provides tack free film ideal for doors, windows, cabinets, shelving</td>
</tr>
<tr>
<td>Very good adhesion</td>
<td>Bonds to a wide variety of difficult substrates</td>
</tr>
<tr>
<td>Very good hardness</td>
<td>Durability and hardness similar or better than conventional alkyds</td>
</tr>
<tr>
<td>Quick dry</td>
<td>Dry to touch in 15-20 minutes; results in less down time</td>
</tr>
<tr>
<td>Excellent flow &amp; leveling</td>
<td>Provides enamel smooth finish with less brush marks</td>
</tr>
<tr>
<td>Flexible</td>
<td>Withstands bends with no cracking or peeling</td>
</tr>
<tr>
<td>Resistant to household chemicals</td>
<td>Ideal for use in areas requiring frequent cleaning with mild household cleaners or light duty industrial cleaners</td>
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</tbody>
</table>

**TINTING AND BASE INFORMATION**

Refer to the appropriate color formula book, automatic tinting equipment, and/or computer color matching system for color formulas and tinting instructions. The bases can be tinted with 96 line or 896 colorants.

- V56-410 White and Pastel Base
- V56-420 Midtone*
- V56-430 Deetone*
- V56-440 Ultra Deep*
- V56-35 Bronze
- V56-90 Wrought Iron Black

*Must be tinted before use.

Some colors, drastic color changes, or porous substrates may require more than one coat to achieve a uniform finish. Safety colors and high chroma colors should be tinted with 896 colorants for optimum performance.

## PRODUCT DATA

**PRODUCT TYPE:** Water-borne Acrylic

**SHEEN:** Satin: 20 to 25 (60º Gloss Meter)

**VOLUME SOLIDS**: 40% +/- 2%

**WEIGHT SOLIDS**: 55% +/- 2%

**VOC**: 50 g/L (0.4 lbs./gal.)

**WEIGHT/GALLON**: 11.0 lbs. (5.0 kg) +/- 0.2 lbs. (91 g)

*Product data calculated on product V56-410.

**COVERAGE:** Approximately 400 sq. ft./gal. (37 sq. m/3.78L) depending on surface texture and porosity.

- Wet Film Thickness: 4.0 mils
- Wet Microns: 102 microns
- Dry Film Thickness: 1.6 mils
- Dry Microns: 41 microns

Coverage figures do not include loss due to surface irregularities and porosity or material loss due to application method or mixing.

**DRYING TIME:**
- Dry time @ 77ºF (25ºC); 50% relative humidity.
  - To Touch: 15 to 20 minutes
  - To Handle: 1 hour
  - To Recoat: After 2 hours
  - For Foot Traffic: 12 hours
  - For Forklift Traffic: 36 hours
  - To Full Cure: 7 days

Drying times listed may vary depending on temperature, humidity, color and air movement.

**CLEANUP:** Clean tools and spray equipment with warm, soapy water immediately after use.

**FLASH POINT:** Over 200ºF (93°C)

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*Product data calculated on product V56-410. *Must be tinted before use. Some colors, drastic color changes, or porous substrates may require more than one coat to achieve a uniform finish. Safety colors and high chroma colors should be tinted with 896 colorants for optimum performance.
**GENERAL SURFACE PREPARATION**

Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding. Prime all bare and porous substrates with an appropriate primer. On exterior surfaces, remove mildew by using PPG MILDEW CHECK® Multi-Purpose Wash, 18-1; or 1 part chlorine bleach to 3 parts water. Before use, be sure to read and follow the instructions and warnings on the label. WARNING! If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. In Canada contact a regional Health Canada office. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

**Aluminum:** A primer is required for proper adhesion. Any coating applied directly to aluminum should be spot applied, allowed to cure overnight, and then evaluated for adhesion. If adhesion is good, the application may proceed.

**Ferrous Metal:** The surface must be cleaned thoroughly to remove any dust, rust, oil, and surface contaminants, and then primed. No primer is required for interior applications.

**Galvanized Steel:** A primer is required for proper adhesion. Caution must be used when selecting coatings for use on all galvanized metal surfaces. These substrates may have a factory-applied stabilizer, which is used to prevent white rusting during storage and shipping. Such stabilizers must be removed by either brush blasting, sanding or chemical treatment prior to priming.

**Interior Wood:** Unpainted wood or wood in poor condition should be sanded smooth, wiped clean, then primed. Any knots or resinous areas must be primed before painting. For non-bleeding or previously painted wood, no primer is required.

**Concrete/Masonry Block:** Mortar should cure for at least 30 days and preferably 90 days prior to priming and painting. Fill block with appropriate block filler. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer may be applied to seal the surface.

**Plaster or other alkaline surfaces should be left to cure for at least 30 days prior to priming with an alkali resistant primer.**

**Concrete:** New concrete should cure for at least 30 days and preferably 90 days prior to priming and painting. The pH of the substrate must be less than 10 before painting. priming If pH is greater than 10, prime with an alkali resistant primer.

**Concrete/Masonry Block:** Mortar should cure for at least 30 days and preferably 90 days prior to priming. Fill block with appropriate block filler. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer may be applied to seal the surface.

**Gypsum Wallboard/Drywall:** Nails or screws should be countersunk, and they along with any indentations should be mudded flush with the surface, sanded smooth and cleaned to remove any dust, then prime prior to painting the substrate.

**Plaster:** Plaster or other alkaline surfaces should be allowed to cure for at least 30 days prior to priming with an alkali resistant primer.

**Fiberglass:** No primer needed; sanding or scuffing the surface is recommended. Primer and topcoat should be spot applied as directed, allowed to cure overnight, then evaluated for adhesion. If adhesion is good, the application may proceed.

**Laminate:** No primer needed; sanding or scuffing the surface is recommended. Topcoat should be spot applied as directed, allowed to cure overnight, then evaluated for adhesion. If adhesion is good, the application may proceed.

**Vinyl & Architectural Plastics:** Vinyl and similar architectural plastics may present potential adhesion problems. A primer may be required to promote proper adhesion. Consult the manufacturer’s guidelines prior to painting. Primer and Topcoat should be spot applied, allowed to cure overnight, then evaluated for adhesion. If adhesion is good, the application may proceed. Do not paint vinyl or plastic with a color darker than the original to prevent potential warping due to heat absorption.

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**RECOMMENDED PRIMERS**

<table>
<thead>
<tr>
<th>Material</th>
<th>Primers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>6-204, 17-921, 90-712, 90-912</td>
</tr>
<tr>
<td>Concrete</td>
<td>4-603, Self-priming</td>
</tr>
<tr>
<td>Concrete/Masonry Block</td>
<td>4-100, 6-7, 6-15</td>
</tr>
<tr>
<td>Ferrous Metal</td>
<td>6-208, 90-712, 90-912</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>Self-priming</td>
</tr>
<tr>
<td>Galvanized Steel</td>
<td>6-209, 17-921, 90-712, 90-912</td>
</tr>
<tr>
<td>Gypsum Wallboard/Drywall</td>
<td>6-2, 6-4, 9-900, 12-900, 17-921</td>
</tr>
<tr>
<td>Interior Wood</td>
<td>Self-priming</td>
</tr>
<tr>
<td>Laminates</td>
<td>4-603, 17-921</td>
</tr>
<tr>
<td>Plaster</td>
<td>Self-priming</td>
</tr>
<tr>
<td>Vinyl &amp; Architectural Plastics</td>
<td>Self-priming</td>
</tr>
</tbody>
</table>

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**PACKAGING**

1-Gallon (3.78 L)

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**LIMITATIONS OF USE**

Apply only when air and surface temperatures are above 50°F (10°C) or above and when the air and surface temperatures will remain above 50°F (10°C) for the next 24 hours. Avoid exterior application late in the day when dew and condensation are likely to form or when rain is anticipated. Not recommended for exterior horizontal surfaces unless these surfaces can be protected from dew and rain for 7 days. Wait at least 7 days after painting before cleaning the surface with a non-abrasive, mild cleanser. Not recommended for polypropylene or polyethylene plastics, roofs, garage floors or concrete floors subject to hot tires, continuous water immersion environments, such as bathtubs, sinks, shower basins and pools. Do not use on large wood structures or the bodies of homes. Not recommended for very flexible substrates subject to abuse; such as canvas, nylon rope or rubber. Not recommended to be blended with the V76 series. PROTECT FROM FREEZING.