**Benjamin Moore**

**100% ACRYLIC EXTERIOR FLAT FINISH 541**

**Features**
- Low temperature application down to 35 °F (1.7 °C)
- Resistant to peeling and cracking
- Excellent hide and color retention
- Blister resistant
- Resists new mildew formation
- Soap and water clean-up
- 25 Year warranty

**General Description**
A premium quality 100% acrylic latex flat house paint designed for application to a wide variety of exterior surfaces such as wood, hardboard, vinyl and aluminum siding, shingles, unglazed brick, concrete, stucco, cinder block, and primed metal. Provides a breathable surface for maximum durability.

**Recommended For**
For exterior surfaces such as new or previously painted wood, hardboard siding, cured masonry, and unglazed brick.

**Limitations**
- Do not apply when air and surface temperatures are below 35 °F (1.7 °C).
- Not for interior use

**Product Information**

**Colors — Standard:**
White (01)
(May be tinted with up to 2.0 fl. oz. of Benjamin Moore® Gennex® colorants per gallon.)

— **Tint Bases:**
Benjamin Moore® Gennex® bases 1X, 2X, 3X & 4X

— **Special Colors:**
Contact your Benjamin Moore Representative

**Certifications & Qualifications:**
VOC compliant in all regulated areas

- Master Painters Institute MPI # 10
- Water vapor permeance ASTM D1653: 47 perms
- Wind driven rain ASTM D6904 (1 coat 608 masonry primer/1 coat 541)
- Early Rain Resistance: 1 ½ – 2 hours after application over wood, primed surfaces or previously painted surfaces (77 °F / 50% RH)
  - Other surfaces such as hardboard or vinyl may require a longer dry time

**Technical Data**

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>Pastel Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Type</td>
<td>100% Acrylic Latex</td>
</tr>
<tr>
<td>Pigment Type</td>
<td>Titanium Dioxide</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>34.5%</td>
</tr>
<tr>
<td>Coverage per Gallon</td>
<td>350 – 475 Sq. Ft.</td>
</tr>
<tr>
<td>Recommended Film Thickness</td>
<td>– Wet 3.8 mils</td>
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<tr>
<td></td>
<td>– Dry 1.3 mils</td>
</tr>
</tbody>
</table>

Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.

| Dry Time @ 77°F (25°C) @ 50% RH | – To Touch 1 Hour |
|                                | – To Recoat 4 Hours |

Painted surfaces can be washed after two weeks. High humidity and cool temperatures will result in longer dry, recoat and service times.

<table>
<thead>
<tr>
<th>Dries By</th>
<th>Evaporation, Coalescence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>105 ± 3 KU</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Gloss / Sheen</td>
<td>Flat (0.5 – 2.5 @ 85°)</td>
</tr>
<tr>
<td>Surface Temperature at Application</td>
<td>– Min. 35 °F</td>
</tr>
<tr>
<td></td>
<td>– Max 100 °F</td>
</tr>
<tr>
<td>Thin With</td>
<td>See Chart</td>
</tr>
<tr>
<td>Clean Up Thinner</td>
<td>Clean Water</td>
</tr>
<tr>
<td>Weight Per Gallon</td>
<td>11.06 lbs</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>– Min. 40 °F</td>
</tr>
<tr>
<td></td>
<td>– Max 95 °F</td>
</tr>
</tbody>
</table>

**Volatile Organic Compounds (VOC)**

44 Grams/Liter, .37 lbs./Gallon

◊Reported values are for Pastel Base. Contact Benjamin Moore for values of other bases or colors.
**Surface Preparation**

Surfaces must be clean, dry and free of oil, grease, wax, rust, mildew, chalk and loose or scaling paint. Cement based water proofing paints should be removed. Glossy surfaces must be dulled. Un-weathered areas such as eaves, porch ceilings, overhangs and protected wall areas should be washed with a Benjamin Moore® Clean (N318) and rinsed with a strong stream of water from a garden hose or power washer to remove contaminants that can interfere with proper adhesion. Stains from mildew must be removed by cleaning with Benjamin Moore® Clean (N318) prior to coating the surface. Caution: Refer to the (N318) Clean technical data and material safety data sheets for instructions on its proper use and handling.

All new masonry surfaces must be power washed or brushed thoroughly with stiff fiber bristles to remove loose particles. New masonry substrates must be allowed to cure for 30 days before priming or painting. Porous or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds.

**Difficult Substrates:** Benjamin Moore offers a number of specialty primers for use over difficult substrates such as bleeding woods, grease stains, crayon markings, hard glossy surfaces, or other substrates where paint adhesion or stain suppression is a particular problem. Your Benjamin Moore® retailer can recommend the right problem-solving primer for your special needs.

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to properly protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

**Primer/Finish Systems**

New surfaces should be fully primed, and previously painted surfaces may be primed or spot primed as necessary. For best hiding results, tint the primer to the approximate shade of the finish coat, especially when a significant color change is desired. **Special Note:** Certain custom colors require a Deep Color Base Primer tinted to a special prescription formula to achieve the desired color. Consult your retailer.

**Wood and engineered wood products:**

- ** Primer:** Fresh Start® High-Hiding All Purpose Primer (046) or Fresh Start® Multi-Purpose Latex Primer (N023)
  - **Finish:** 1 or 2 coats ben® Exterior 100% Acrylic Flat Finish (541)

- **Bleeding Type Woods, (Redwood and Cedar):**
  - ** Primer:** Fresh Start® Exterior Wood Primer (094) or 1-2 coats of Fresh Start® High-Hiding All Purpose Primer (046) may be used
  - **Finish:** 1 or 2 coats ben® Exterior 100% Acrylic Flat Finish (541)

- **Hardboard Siding, Bare or Factory Primed:**
  - ** Primer:** Fresh Start® High-Hiding All Purpose Primer (046) or Fresh Start® Multi-Purpose Latex Primer (N023)
  - **Finish:** 1 or 2 coats ben® Exterior 100% Acrylic Flat Finish (541)

- **Vinyl Siding & Vinyl Composite:**
  - In most cases, a primer is not necessary. Only areas of pitted and porous vinyl siding must be primed. In these cases, we recommend Fresh Start® High-Hiding All Purpose Primer (046), or Fresh Start® Multi-Purpose Latex Primer (N023).
  - **Colors that are safe for use on vinyl siding - Do not paint vinyl with any color darker than the original color or having a Light Reflective Value (LRV) of less than 55 unless it is in the Benjamin Moore approved Colors for Vinyl palette and complies with the specific vinyl manufacturer guidelines when making the color selection and painting. Otherwise, the color will absorb more heat, possibly causing the siding to warp, resulting in additional repairs and expenses.**

- **Rough or Pitted Masonry:**
  - ** Primer:** Ultra Spec® Masonry Interior/Exterior Hi-Build Block Filler (571)
  - **Finish:** 1 or 2 coats ben® Exterior 100% Acrylic Flat Finish (541)

- **Poured or Pre-cast Concrete and Fiber Cement Siding:**
  - ** Primer:** Ultra Spec® Masonry Interior / Exterior 100% Acrylic Masonry Sealer (608) or Fresh Start® Multi-Purpose Latex Primer (N023)
  - **Finish:** 1 or 2 coats ben® Exterior 100% Acrylic Flat Finish (541)

- **Ferrous Metal (Steel and Iron):**
  - ** Primer:** Ultra Spec® HP Acrylic Metal Primer (HP04) or Super Spec HP® Alkyd Metal Primer (P06)
  - **Finish:** 1 or 2 coats ben® Exterior 100% Acrylic Flat Finish (541)

- **Non-Ferrous Metal (Galvanized & Aluminum):** All new metal surfaces must be thoroughly cleaned with Corotech® Oil & Grease Emulsifier (V605) to remove contaminants. New shiny non-ferrous metal surfaces that will be subject to abrasion should be dulled with very fine sandpaper or a synthetic steel wool pad to promote adhesion
  - ** Primer:** No primer needed
  - **Finish:** 1 or 2 coats ben® Exterior 100% Acrylic Flat Finish (541)

- **Repaint, All Substrates:** Prime bare areas with the primer recommended for the substrate above.

**Application**

Stir thoroughly before and during use. Apply one or two coats.

**Application:** For best results, use a premium Benjamin Moore® custom-blended nylon/polyester brush, premium Benjamin Moore® roller, or a similar product. Apply paint generously from unpainted area into wet area. This product can also be sprayed. Refer to the chart below for application recommendations.

**Thinning/Clean up**

**Conditioning with Benjamin Moore® 518 Extender may be necessary under certain conditions to adjust open time or spray characteristics.**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Requirements</th>
<th>Severe Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humid (RH&gt; 55%) &amp; with no direct sunlight &amp; with little to no wind</td>
<td>Dry (RH&lt;50%), in direct sunlight, or windy conditions</td>
<td></td>
</tr>
<tr>
<td>Brush:</td>
<td>Add 518 Extender or water:</td>
<td></td>
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<tr>
<td>Roller:</td>
<td>No thinning necessary</td>
<td></td>
</tr>
<tr>
<td>Spray: Airless Pressure: 1500 -2500 psi</td>
<td>Max of 8 fl. oz. to a gallon of paint</td>
<td></td>
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<tr>
<td>Tip: .013 - .017</td>
<td>Never add other paints or solvents.</td>
<td></td>
</tr>
</tbody>
</table>

**Clean Up:** Clean up with warm soapy water. Spray equipment should be given a final rinse with mineral spirits to prevent rusting.

**USE COMPLETELY OR DISPOSE OF PROPERLY.** Dry empty containers may be recycled in a can recycling program. Local disposal requirements vary; consult your sanitation department or state-designated environmental agency on disposal options.

**Environmental Health & Safety Information**

Use only with adequate ventilation. Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. May cause allergic skin reaction. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer’s directions for respirator use. Close container after each use. Wash thoroughly after handling.

**WARNING:** Cancer and Reproductive Harm—www.P65Warnings.ca.gov

**FIRST AID:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

**IN CASE OF SPILL — Absorb with inert material and dispose of as specified under “Clean Up”.**

**KEEP OUT OF REACH OF CHILDREN PROTECT FROM FREEZING**

Refer to Safety Data Sheet for additional health and safety information.