



INDUSTRIAL



INDUSTRIAL 1290 DURASHIELD SEMI-GLOSS Interior/Exterior • 2 - Component • Aliphatic Polyurethane Semi-Gloss Finish



CROWN
PAINT

Product Data Sheet

Edition January 8, 2015

Product Description

1290 Durashield is an innovative interior/exterior 2-component polyurethane semi-gloss finish designed for hospitals, healthcare facilities and food processing plants where frequent cleaning with harsh chemicals is commonly encountered. 1290 Durashield is formulated using Bayhydrol® HD Wall Coating Technology from Bayer Material Science Co. This advanced technology has allowed manufacturer to formulate an exceptional abrasion resistant coating with very low VOC. 1290 Durashield is virtually odor free, will not yellow and offers both interior and exterior durability.

Recommended Uses

FOR PROFESSIONAL USE ONLY. 1290 Durashield is ideal for specification and application in healthcare facilities, food processing facilities, industrial and high usage public areas. The high performance chemical resistance product composition and film strength of Ure-Tech allows the use of most disinfecting chemicals designed to combat MRSA and other bacteria.

Bases

White, Off-White and Pastel. Bases: P

Packaging*

One gallon kit:
Part A: Resin (short fill gallon/106 oz.)
Part B: Activator (short fill quart/20 oz.)
*shelf life for both Part A & B is 6 months from date of purchase.

Finish

Semi-Gloss, sheen @ 60° = 60 - 64 %

Surface Preparation

New: Clean to remove all contaminants, dirt and dust. Apply one coat of primer to seal surface.
Repaint: Clean to remove all surface contaminants, degloss old enamel surfaces. For damaged or stained surfaces apply one coat of primer.

Primer

• **1110 SEAL IT** : - Drywall (New / Existing). • **1040 MASONRY PRE-COAT** :
- Concrete, - Masonry. • **1420 ONE PRIME** : - Wood (Exterior/Interior),
- Ferrous Metal, - Non-Ferrous Metal.

Application

Mix 1290 Durashield 2-component polyurethane part B into Part A (WARNING: part B contains polyisocyanate, a chemical that is considered a respiratory and skin sensitizer. Read MSDS carefully for proper handling). Mix well for 5 minutes (if using a hand mixer, be careful not to induce foam). Let mixture stand for 10 minutes before application. DO NOT mix partial kits. If necessary, the 2nd coat may be applied wet on wet at the time of application. Do not try to 2nd coat already cured material (more than 24 hours), adhesion will be compromised. To re-coat cured surface, sanding would be required to ensure proper adhesion. In projects lasting more than one day, you must achieve a clean break point to avoid overlapping the next day.
Roller Application: use 3/8"-1/2" nap high quality roller such as lamb skin roller; start at one corner, spread the paint evenly, then back roll in one direction to "tighten up" that section. Immediately wash brush and equipment with soap and water when finished.
Spray Application: use airless, and .13 tip. Use OSHA approved mask and personal protection (see MSDS for more information). To avoid sag on smooth surfaces, stay within 5 mils wet. Wash spray equipment immediately after use.
Pot Life: 2 hours

Drying Time

Tack Free: 4 hours (at 75°, lower temperature will prolong drying)
Hard: 16 hours (at 75°, lower temperature will prolong drying)
Cure: 5 Days

Coverage

325-350 square feet per gallon, depending on surface

Mil Thickness

Wet - 4.5 - 5 • Dry - 2

Thinning

Use at package consistency. If thinning is required, use water sparingly.

DISCLAIMER: To the best of our knowledge, the technical data contained herein are true and accurate at the date of issuance and offered in good faith. All technical information is subject to change without prior notice. This product is guaranteed to give satisfactory performance if applied and used in accordance with the label instructions. Any liability shall be limited to a refund of the purchase price, or replacement of this product. This warranty does not include labor or cost of labor for the application of any coating. All express and all implied warranties are hereby disclaimed and excluded including all implied warranties of fitness for a particular use and merchantability. Final determination of the suitability of product or intended use is the sole responsibility of the user. Additional information may be obtained from your local sales representative.



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Composition

Weights & Measurements: +/-3.0%
Solids by Volume: 42%
Solids by Weight: 56%
VOC (Part A + Part B): < 50g/l
Weight Per Gal: 11 lbs.
Viscosity: 88 - 94 KU

Conformance

SCAQMD - complies with Rule 1113, Architectural Coatings
LEED - complies with LEED 2009 - Low Emitting Materials

Properties:

Adhesion over steel after 1 week - **Excellent 5B***
Adhesion over aluminum after 1 week - **Excellent 5B***
Adhesion over unsanded aged alkyd after 1 week - **Excellent 5B***
Adhesion over glass after 1 week - **Excellent 5B***
Yellowing - **None**
Household Stain Resistance after 1 week
Coffee - **Good****
Red Wine - **Good****
Mustard - **Good****
Ketchup - **Excellent****
Betadine Solution (Iodine) - **Good****
Scrub Resistance without shims after 1 week - **Over 12,000 cycles*****

Test Results

Chemical Resistance after 1 week
MEK - **over 250 rubs**
Acetone - **over 250 rubs**
Isopropyl Alcohol - **over 250 rubs**
Bleach (Chlorine) - **over 250 rubs**
Hydrogen Peroxide - **over 250 rubs**
Complete Detergent - **over 250 rubs**
Simple Green Cleaner - **over 250 rubs**
Krud Kutter - **over 250 rubs**
Mr. Clean Antibacterial - **over 250 rubs**
Jasco TSP - **over 250 rubs**

Pencil Hardness ASTM D 3363 **2H**

Accelerated Weathering Test:
ASTM D4587 QUV A-bulb 2000 hours - **No chalking, 100% sheen retention**

Flexibility:
Mandrel Test ASTM D 522 - **pass 1/4"**

* ASTM D 3359 Cross-Hatch 5B = 0% area removed 0B = Greater than 65% area removed

** ASTM D 4828 Washability

Excellent = Stain did not penetrate into film

Good = Stain penetrated film, but removed after scrubbing

Poor = Stain penetrated film and remained after scrubbing

*** ASTM D 2486 Scrub Resistance at 12,000 scrubs with no noticeable film degradation

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