

HIGHLIGHT YOUR ARCHITECTURAL ACHIEVEMENTS TODAY

PERMADIZE® HARDCOAT FINISHES



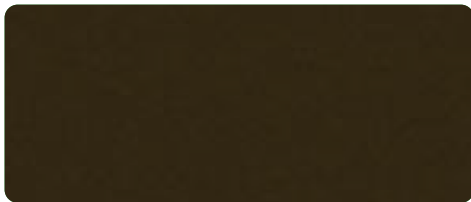
LIGHT SEQUIN



CHAMPAGNE



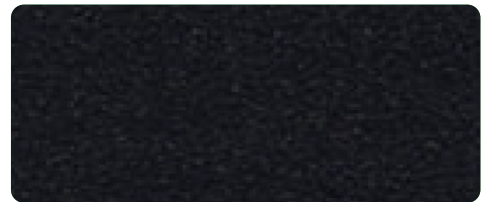
GOLD



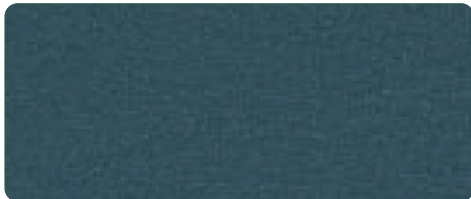
MEDIUM BRONZE



DARK BRONZE



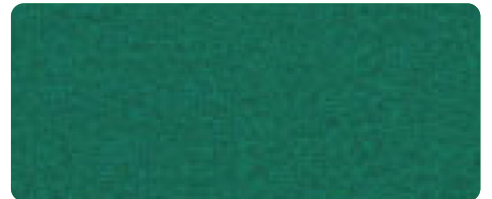
BLACK



ARCTIC BLUE



METALLIC BRICK



TROPICAL JADE



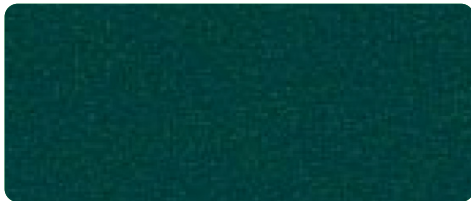
PLATINUM ICE



TERRA COTTA METALLIC



STERLING GRAY



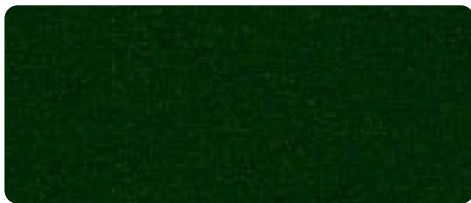
MEDITERRANEAN MIST



CHAMPAGNE ROSE



CLASSIC COPPER



HARTFORD MIST



SAPPHIRE ICE



BURGUNDY METALLIC

Permadize® Hardcoat Finishes combine the proven durability of 50% fluoropolymer resins with a rich metallic pearlescence to create vibrant colors that transform your perception of finishes. The Permadize® secret is its formulation process in which the pearlescent highlights are combined with texturizers – minute metallic-like particles – that add increased abrasion resistance. The result is a hard finish that blends beauty with everyday toughness and mar resistance.

PERFORMANCE THAT MEETS AAMA 2604 REQUIREMENTS

Permadize® finishes stand up to normal use, abuse and weathering. And ultimately, they help to hold down building maintenance costs. Proven performers, Permadize® Hardcoat Finishes are tested to meet the most stringent standards and have surpassed the AAMA 2604 testing requirements. The specification allows non-chrome pre-treatment and covers a period of five years South Florida exposure, as well as tough abrasion, gloss retention and adhesion tests (see table opposite). The added hardness of the 50% Kynar formulation enhances protection against finish damage and touchups that are sometimes required during transportation, installation and everyday use.

AESTHETICS

The hard finish and greater mar resistance of Permadize® Hardcoat Finishes make them ideal for ground floor installations such as storefronts and entrances that must withstand heavy traffic and constant usage. In addition, Permadize® Finishes provide excellent resistance to chalking and fading. Colors include earth tones as well as vivid blues and greens and the metallic sheen suggests custom anodized colors.

Use Permadize® Hardcoat Finishes:

- For colors that complement today's designs
- For hard finish and mar resistance
- For long-lasting performance
- For sparkle that brings life to color

PERFORMANCE TABLE

| Mechanical Performance & Adhesion | AAMA 2604 Reference | Permadize® Hardcoat Finish Performance |
|-----------------------------------|---------------------|---|
| Dry Film Hardness | Section 8.3 | Pass - 2H minimum |
| Dry Film Adhesion | Section 8.4.1.1 | Pass - No film disbondment |
| Wet Adhesion | Section 8.4.1.3 | Pass - No film removal |
| Boiling Water Adhesion | Section 8.4.1.4 | Pass - No film removal or blistering |
| Impact Resistance | Section 8.5 | Pass - No film disbondment |
| Abrasion Resistance | Section 8.6 | Pass - >20 liters per mil |
| Chemical Resistance | AAMA 2604 Reference | Permadize® Hardcoat Finish Performance |
| Muriatic Acid Resistance | Section 8.7.1 | Pass - No visual change or blistering |
| Mortar Resistance | Section 8.7.2 | Pass - No visual change or loss of adhesion |
| Nitric Acid Resistance | Section 8.7.3 | Pass - Color change $\leq 5\Delta E$ (Hunter) |
| Detergent Resistance | Section 8.7.4 | Pass - No film removal or blistering |
| Window Cleaner Resistance | Section 8.7.5 | Pass - No film removal or blistering |
| Corrosion Resistance | AAMA 2604 Reference | Permadize® Hardcoat Finish Performance |
| Humidity Resistance | Section 8.8.1 | Pass - No blisters > "few No. 8" (ASTM D714) |
| Salt Spray Resistance | Section 8.8.2 | Pass - <1.6 mm creep from scribe |
| Weathering 5 Years Florida | AAMA 2604 Reference | Permadize® Hardcoat Finish Performance |
| Color Retention | Section 8.9.1.2 | Pass - Color change $\leq 5\Delta E$ (Hunter) |
| Chalking Resistance | Section 8.9.1.3 | Pass - \geq No. 8 rating (ASTM D4214) |
| Gloss Retention | Section 8.9.1.4 | Pass - \geq 30% gloss retention |
| Erosion Resistance | Section 8.9.1.5 | Pass - < 10% Film loss |

Note: These color samples are as close as possible to actual colors offered within the limitations of printing techniques. Final color specification shall be as per approved color samples. Permadize® finishes are formulated by the Valpar Corporation for Kawneer Company, Inc.