

## TOPCOAT RECOMMENDATION FOR PERLASTIC®

PERLASTIC products by Global Polymer Solutions are a family of corrosion protection coatings for metal or concrete. The water-based formula was engineered to create an elastomeric membrane that, upon curing, provides excellent resistance against a wide range of chemicals common to industrial applications. Since no grit/sand blasting is needed to prepare substrates for coating, PERLASTIC is a safer, more environmentally friendly alternative for industrial asset management.

Since PERLASTIC's natural color is black, a final topcoat is needed to achieve desired colors. Global Polymer Solutions can recommend several water-based elastomeric pigmented topcoats that are compatible with PERLASTIC products and provide excellent durability, flexibility, flame performance and algae/mildew resistance. These topcoats can be applied by brush, roller, or as a spray and come in a wide range of colors.

For color-fast applications, Global Polymer Solutions recommends using a fast-drying basecoat prior to applying the final topcoat. The color stability of the topcoat system was verified by Global Polymer Solutions' laboratory using several accelerated weathering techniques, such as heat aging and UV exposure. Shown below in *Figure 1* are the results of the weathering experiments for "desert tan" and light grey topcoats applied with a Global Polymer Solutions approved basecoat. Systems incorporating approved basecoats yielded minimal color shifts after 200 hour exposure to UV light or elevated temperatures, proving excellent color stability.



Figure 1: Images of PERLASTIC with basecoat + topcoat before and after heat and UV-A Exposure.

For more economical applications that do not require total colorfastness, topcoats can be used without a basecoat. Similar aging experiments were performed on “desert tan” and light grey systems without a basecoat. *Figure 2* below shows the color stability that can be expected when no basecoat is applied. Lighter-colored topcoats experience yellowing with UV or heat exposure.



**Figure 2: Images of PERLASTIC with topcoat (no basecoat) before and after heat and UV-A Exposure.**

To deliver designated colors to PERLASTIC, Global Polymer Solutions recommends using UNIBASE™ by United Coatings as a primer and ROOF MATE™, also by United Coatings, as a top coat. UNIBASE™ delivers a fast-drying, clear basecoat that minimizes color shift with environmental exposure. ROOF MATE™ provides a water-based, elastomeric color coat with excellent adhesion to PERLASTIC. It is available in “desert tan,” “safety yellow,” light grey, dark grey, moss green, and blue. For best results, Global Polymer Solutions recommends a dry film thickness of 5-10 mils for the UNIBASE™ basecoat and 10-12 mils for the ROOF MATE™ topcoat. Information on these products can be obtained using the contact information below. Application guidelines and technical data sheets can be found on United Coatings’ website.

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