

microPRIM™ (Patterned Resin Infused Metal)

Decorative & Protective Powder Coating Technology

Overview

MicroPRIM™ is Ligman’s trademarked decorative powder coating technology that permanently infuses colors, patterns, or imagery directly into the surface of Luminaires and Poles and provides protections that standard powder coat does not offer.

Key features:

- Anti-graffiti surface allows for easy removal of permanent markers, paints, and inks
- UV and weather resistant for outdoor protection against fading
- Scratch and abrasion resistant
- Rated for natatorium, marine, and high corrosion environments
- Design infuses into powder coat, free from peeling, flaking, or delamination
- AAMA 2605 Certified for gloss and color retention
- Thickness 75-100 µm (3-4 mils)
- Proprietary Chemistry

Performance specification:

Feature	Standard/Test	Result
Adhesion	ASTM D 3359	11 parallel cuts of 1mm; no adhesion loss
Hardness	ASTM D 3363	Grade F Hardness; no rupture of film
Impact resistance	18 N/m force	Deformation min. 3mm; no removal of coating
Salt-Spray Resistance	ASTM B 117	No Blistering, no removal of film
UV-Resistance	AAMA 2605 10-year Florida Test	ΔE< 5; Chalking < 8
Chemical Resistance	Acetone, MEK, Ethanol	No gloss loss, staining, or removal of film
Anti-Graffiti Test	UNI 11246	All agents removed cleanly, no discoloration

Available Finish Categories

- Nature-Inspired: Wood grains, stone, and natural motifs
- Material-Inspired: Carbon fiber, brushed metal, concrete, rust, cork
- Colors: Ligman standard or any custom RAL/Pantone
- Custom Imagery: Logos, mascots, city branding, scenery, or digital art

(Refer to MicroPRIM™ Portfolio for ordering codes)

Cleaning & Maintenance

- Clean with mild detergent, alcohol, or acetone. Avoid abrasive pads or strong alkali cleaners
- For graffiti: use Goof Off, ethanol, or MEK mixture (70:30 etasol/MEK)
- For deep scratches that expose the metal substrate, a paint touch-up kit is available

Warranty

10 Year Limited Warranty covering gloss, color, adhesion, chalking, chipping, and corrosion.

