

KEY FEATURES

- Low PIM
- High RF Attenuation
- Crack Resistant
- UV stable Acrylic
- Water based
- Non-flammable



PRODUCT DESCRIPTION

General

PIM Shield® PIM mitigation paint is a conductive acrylic polymer with enhanced elasticity designed to reduce external passive intermodulation (PIM) at cellular base stations. PIM Shield® paint is intended for large, flat surfaces and should NOT be applied directly to antenna mounting structures. Use PIM Seal™ Conductive Caulk to reduce PIM at metal-to-metal contacts on antenna mounting structures.

SPECIFICATIONS

VALUE

| | |
|--|--|
| Intended use | Interior or Exterior use. Not intended for walking surfaces. |
| Color | Dark Gray |
| Gloss | Flat / matte |
| Sheen | <10 |
| Tinting | No |
| Topcoat | Two coats of Exterior Acrylic Latex paint recommended. Verify compatibility of topcoat on small test area before application. Allow PIM Paint to cure a minimum of 24 hrs. before applying top coat. |
| Resin type | Acrylic |
| Viscosity | 120 – 130 KU |
| Flash Point | n/a |
| VOC | <80 g/l |
| CARB | <80 g/l |
| Volume Solids per gallon | 43 % |
| Weight Solids per gallon | 34 % |
| Specific Gravity | 1.18 |
| Elongation (ASTM D2370) | >65% typical |
| Tensile Strength (ASTM D2370) | >116 psi. typical |
| Coverage (1 coat) | 150 - 175 ft ² /gallon (smooth, non-porous surface), 110 -120 ft ² /gallon (Stucco) |
| Drying time | 8 hr. |
| Dry to touch | 2 hr. |
| Full cure | 7 days |
| Drying time (between coats) | 4 hr. |
| Recommended wet film thickness per coat | 0.01 inch (10 mils) Two coats recommended |
| Radiated PIM performance, IEC 62037-8, near field test, static, 700 MHz, 1900 MHz | IM3 <-100 dBm with 2x 20W test tones |

| SPECIFICATIONS | VALUE |
|----------------------------------|--|
| RF Shielding, 1-10 GHz (1 coat) | 10 dB typical |
| PIM reduction, (1 coat) | > 28 dB typical |
| RF Shielding, 1-10 GHz (2 coats) | 17 dB typical |
| PIM reduction, (2 coats) | >47 dB typical |
| Flame Spread Index, ASTM E84 | 5 (Class A) |
| Smoke Developed Index, ASTM E84 | 5 (Class A) |
| pH | 8.5 – 9.5 |
| Application temperature | >40°F (>5°C) |
| Service temperature | -40°F to +158°F (-40°C to +70°C) |
| Storage | Store in cool location. Protect from freezing. |
| Shelf life (un-opened) | 1 year |

Ordering Information

| Part Number | Description | Qty. Per Case | Case Weight (lbs.) | Case Dimensions (inches) |
|--------------|--|---------------|--------------------|---|
| 901087-0 | PIM Shield PIM Mitigation Paint, 1 Quart | 6 | 15.9 | 13.5 x 9.3 x 5.5 |
| 901087-0-PKG | PIM Shield PIM Mitigation Paint, 1 Quart, w/ protective packaging | 1 | 3.0 | 7.3 x 7.3 x 7.5 |
| 901087-1 | PIM Shield PIM Mitigation Paint, 1 Gallon | 4 | 41 | 14 x 14 x 8.5 |
| 901087-1-PKG | PIM Shield PIM Mitigation Paint, 1 Gallon, w/ protective packaging | 1 | 10.5 | 10.5 x 10.5 x 12.5 |
| 901087-5 | PIM Shield PIM Mitigation Paint, 5 Gallon | 1 | 55 | 13 x 13 x 16.5 <i>*Must ship on pallet</i> |

Recommended Surfaces

- Steel
- Aluminum
- Wood
- Concrete Block
- Cement
- Concrete
- Brick
- Drywall
- Fiberglass

Application

- Stir thoroughly before use
- Nylon/ polyester brush
- 3/8" nap roller

DO NOT THIN. Product is formulated for use at package consistency only.

Surface Preparation

All surfaces must be clean, free of dust, dirt, oil, grease, wax, polish, mold and mildew. Remove any loose and peeling paint, rust and all other foreign substances. Fill gaps and sharp corners with PIM Seal™ Conductive Caulk prior to painting. Only apply to concrete and cement that is fully cured (30 days). Acid wash green concrete and cement with muriatic acid and thoroughly dry prior to applying paint. Smooth stucco surfaces with a disc sander to break sharp points and remove grinding dust. Sand unpainted fiberglass jell coat to remove surface gloss prior to painting. Prime bare plywood surfaces with appropriate primer.

Clean-Up and Disposal

Clean tools using soap and warm water. Dispose of unused product in accordance with federal, state and local regulations.

CAUTIONS

- **For professional use only**
- Keep out of reach of children
- Read Safety Datasheet (SDS) prior to use

