



## FAN SILENCER ACCESSORIES AND OPTIONS

### **Surface Finishes for External Casings**

- Specification for 7 Standard Paint Options (with coating details)

### **Rain Hoods**

- Gooseneck
- Horizontal Mount
- Vertical Mount

### **Inlet Filter Boxes**

- Horizontal Orientation
- Vertical Orientation
- Filter Cartridge Options

### **Duct Transitions and Spool Pieces**

- Round-to-Rectangular
- Area Change (Round or Rectangular)
- Spool Off-set

### **Vibration Isolation**

- Free Spring
- Closed Mount
- Closed Mount with Restraint
- Spring Hanger
- Neoprene Shear Mount
- Neoprene Pad

### **Fan Bases**

- Integral Welded-Steel
- Concrete-Filled Welded-Steel Inertia

### **Back draft and Pressure Relief Dampers**

### **Flow Probes and Instrumentation**

- Static Pressure Probe
- Velocity Pressure Probe
- Magnehelic Pressure Gauge
- Electronic Pressure Transmitter



## SURFACE FINISH SPECIFICATION

Industrial Paint Coating Options for Fan Silencers and Systems

**Option A) Standard Coating:** Gray Primer – Inorganic Zinc Rich Primer 3 mils DFT

**Option B) Upgraded Coating:** 3-Step System – Epoxy Finish coating (Light Gray) with High Build Intermediate coat over Inorganic Zinc Rich Primer

- 10 mils minimum Dry Film Total
- Ref. PPG No. 50 HD
- Surface Preparation: Commercial Blast Cleaning SSPC-SP 6-63 for non-immersion service.
- 3-Step System Includes:
  - (1) Primer: Inorganic Zinc Rich Primer (Gray)  
[ref. item 1 below] 3 mils DFT
  - (2) 2nd Coat: High Build, Semi-Gloss Polyamide-Epoxy (Light Gray) [ref. item 3 below] 5 mils DFT
  - (3) 3rd Coat: Aquapon Polyamide-Epoxy Finish  
[ref. item 4 below] 2 mils DFT

Note:

- Maximum dry heat resistance 250deg.F (121deg.C).
- Excellent salt and solvent resistance.
- Not recommended for mineral acid, alkali, or oxidizing agent exposure.

**Option C) Upgraded Coating:** 1-Step System – Inorganic Zinc Rich Primer (Red-Gray) coating

- Ref. PPG No. 202 HD
- Surface preparation: commercial Blast Cleaning SSPC-SP 6-63 for non-immersion service.
- System Includes:
  - (1) Inorganic Zinc Rich Primer (Red-Gray) [ref. item 2 below] 3 mils DFT

Note:

- Maximum dry heat resistance 750deg.F (399deg.C).
- Good salt and solvent resistance. Galvanic protection similar to galvanizing.
- Not recommended for mineral acid, alkali, or oxidizing agent exposure.

**Option D) Upgraded Coating:** 3-Step System – Epoxy finish coating (Light Gray) with Enamel (Light Gray) Intermediate coat over Inorganic Zinc Rich Primer

- 7 mils minimum Dry Film Total
- Ref. PPG No. 213 HD
- Surface preparation: Commercial Blast Cleaning SSPC-SP 6-63 for non-immersion service.
- 3-Step System Includes:
  - (1) Primer: Inorganic Zinc Rich Primer (Red-Gray)  
[ref. item 2 below] 3 mils DFT
  - (2) 2nd Coat: Acrylic Urethane Enamel (Light Gray)  
[ref. item 5 below] 2 mils DFT
  - (3) 3rd Coat: Aquapon Polyamide-Epoxy Finish  
[ref. item 4 below] 2-3 mils DFT

Note:

- Maximum dry heat resistance 250deg.F (121deg.C).
- Excellent gloss and color retention.
- Excellent salt and solvent resistance.
- Not recommended for mineral acid, alkali, or oxidizing agent exposure.



## SURFACE FINISH SPECIFICATION

### **Option E) Upgraded Coating:** 1-Step System – Inorganic Zinc Rich Primer (Gray) coating

- 3 mils minimum Dry Film Total
- Ref. PPG No. 216 HD
- Surface Preparation: commercial blast cleaning SSPC-SP 6-63 for non-immersion service.
- System Includes:
  - (1) Inorganic Zinc Rich Primer (Gray) [ref. item 1 below] 3 mils DFT

#### Note:

- Maximum dry heat resistance 750deg.F (399deg.C).
- Good salt and solvent resistance.
- Heavy duty galvanic protection for ferrous metals.
- Not recommended for mineral acid, alkali, or oxidizing agent exposure.

### **Option F) Upgraded Coating:** 2-Step System – Epoxy finish coat over Inorganic Zinc Rich Primer

- 8 mils minimum Dry Film Total
- Ref. PPG No. 217 HD
- Surface Preparation: commercial blast cleaning SSPC-SP 6-63 for non-immersion service.
- 2-Step System Includes:
  - (1) Primer: Inorganic Zinc Rich Primer (Gray) [ref. item 1 below] 3 mils DFT
  - (2) 2nd Coat: High Build, Semi-Gloss Polyamide-Epoxy Coating (Light Gray) [ref. item 3 below] 5 mils DFT

#### Note:

- Maximum dry heat resistance 250deg.F (121deg.C)
- Not recommended for mineral acid, alkali, or oxidizing agent exposure.

### **Option G) Upgraded Coating:** 1-Step System – Polyamide-Epoxy (Light Gray) Direct-To-Rust Coating For Hand Cleaned Steel

- 5-7 mils Dry Film Total
- Ref. PPG No. 221 HD
- Surface preparation: solvent cleaning
- System Includes:
  - (1) Polyamide-Epoxy (Light Gray) [ref. item 6 below] 5-7 mils DFT

#### Note:

- Maximum dry heat resistance 250deg.F (121deg.C).
- Good salt and solvent resistance.
- Provides some resistance to mineral acid, alkali fumes, and oxidizing agent exposure, depending on type of surface preparation and DFT.



## SURFACE FINISH SPECIFICATION

### COATINGS DESCRIPTION:

#### Item 1) Inorganic Zinc Rich Primer (Gray) Inorganic Zinc Rich Primer 97-676 Gray

- Inorganic self-curing ethyl silicate and metallic zinc.
- In service temperature limits 750deg.F (399deg.C) - dry, continuous service.
- Excellent resistance to solvents in splash or immersion service, and thermal shock.
- Very good resistance to salt atmospheres.
- Provides heavy duty galvanic protection on ferrous metals.
- Accepted by USDA for use on structural non-food contact or incidental food contact surfaces.
- Cannot withstand direct exposure to acid or alkali. Use suitable topcoat for these situations.

#### Item 2) Inorganic Zinc Rich Primer (Red-Gray) Inorganic Zinc Rich Primer 97-673S/674S Red-Gray

- Inorganic self-curing ethyl silicate, metallic zinc and iron oxide.
- In service temperature limits 750deg.F (399deg.C) - dry, continuous service.
- Excellent resistance to solvents in splash or immersion service, and thermal shock.
- Very good resistance to salt atmospheres.
- Provides galvanic protection similar to galvanizing for ferrous metals.
- Cannot withstand direct exposure to acid or alkali. Use suitable topcoat for these situations.

#### Item 3) High Build, Semi-Gloss Polyamide-Epoxy Coating (Light Gray), Semi-Gloss Polyamide-Epoxy Coating 97-131/139 Light Gray

- Semi-gloss, high build, high solids polyamide-epoxy.
- In service temperature limits 250deg.F (121deg.C) - dry, continuous service.
- Excellent resistance to solvents in splash or immersion service.
- Resistant to spills, splashes, dust or fumes from the following substances:
  - Animal oils; sodium chloride; calcium chloride; sodium sulfate; caustic soda; sulfuric acid (up to 30% conc.); hydrochloric acid (up to 30% conc.); nitric acid (up to 30% conc.); ferric chloride; sugar syrup; ferrous sulfate; glycerin; vegetable oils.
- Accepted by USDA for use on structural non-food contact or incidental food contact surfaces.
- Not recommended for use where following materials create a severe exposure:
  - acetic acid; amines; ammonium hydroxide (over 10% conc.); calcium hypochlorite; chlorinated solvents; chromic acid; formaldehyde; hydrogen peroxide; hydraulic containing phosphate esters; PVA latex; silage acids; sodium hypochlorite fluids.
- Surface will chalk quickly in outdoor applications, though film integrity is not adversely affected.



## SURFACE FINISH SPECIFICATION

### Item 4) Aquapon Polyamide-Epoxy Finish Coating 97-3/98 Light Gray

- Medium-gloss, polyamide-epoxy.
- In service temperature limits 250deg.F (121deg.C) - dry, continuous service.
- Excellent resistance to solvents in splash or immersion service.
- Resistant to spills, splashes, dust or fumes from the following substances:
  - animal oils; sodium chloride; calcium chloride; sodium sulfate; caustic soda, sulfuric acid (up to 30% conc.); hydrochloric acid (up to 15% conc.), nitric acid (up to 30% conc.); ferric chloride; sugar syrup; ferrous sulfate; glycerin; vegetable oils
- Accepted by USDA for use on structural non-food contact or incidental food contact surfaces.
- Not recommended for use where following materials create a severe exposure:
  - acetic acid; amines; ammonium hydroxide (over 10% conc.); calcium hypochlorite; chlorinated solvents; chromic acid; formaldehyde; hydrogen peroxide; hydraulic containing phosphate esters; PVA latex; silage acids; sodium hypochlorite.
- Gradual gloss reduction and chalking will occur in outdoor applications, though film integrity is not adversely affected.

### Item 5) Acrylic-Aliphatic Urethane Enamel (Light Gray) Acrylic-Aliphatic Urethane Enamel 97- 806S/ 819 Light Gray

- High-gloss, acrylic-aliphatic urethane
- In service temperature limits 350deg.F (177deg.C) - dry, continuous service.
- Hard, tile-like finish stays bright and glossy even after extended outdoor exposure.
- Good stain resistance.
- Good resistance to solvents in splash service.
- Resistant to the following substances if used in the proper paint system:
  - Animal oils, caustic soda, nitric acid, sugar syrup, glycerin, vegetable oils.
  - Steam, cutting oils, coolants, maintenance-type machinery fluids.
  - Aromatic or aliphatic solvents.
  - Mineral acids such as sulfuric, hydrochloric, or phosphoric.
  - Salts such as sodium carbonate, sodium chloride, sodium chloride, sodium phosphate, sodium sulphate, calcium sulphate, ferric acetate, magnesium chloride, ferrous chloride and aluminum sulphate.
  - Alkali-type substances such as potassium hydroxide, sodium hydroxide and calcium hydroxide.
  - Oxidizing agents such as hydrogen peroxide and chlorine dioxide.
- Accepted by USDA for use on structural non-food contact or incidental food contact surfaces.
- Not resistant to aircraft hydraulic fluid.
- Not recommended for immersion service.

### Item 6) Polyamide-Epoxy (Light Gray) Direct-To-Rust Coating 97-148/149 Light Gray

- Polyamide-epoxy.
- In service temperature limits 250deg.F (121deg.C) - dry, continuous service.
- Intended for one-coat, self-priming, high build barrier-type protection with minimum surface preparation required.
- Accepted by USDA for use on structural non-food contact or incidental food contact surfaces.
- Surface will chalk quickly in outdoor applications, though film integrity is not adversely affected.