



## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

**Product ID:** IF5817P  
**Product Name:** BLUE EPOXY  
**Product Use:** Powder paint  
**Print date:** 06/Jan/2009  
**Revision Date:** 24/Dec/2008

#### Company Identification

The Valspar Corporation  
1101 Third Street South  
Minneapolis, MN 55415

**Manufacturer's Phone:** 1-612-332-7371

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Eye Contact:

- Moderate eye irritation
- May cause eye irritation.

#### Skin Contact:

- Causes skin irritation.
- May cause sensitization by skin contact.

#### Ingestion:

- Harmful if swallowed.

#### Inhalation:

- Causes respiratory tract irritation.
- May cause irritation of respiratory tract.
- Harmful by inhalation.
- Difficulty in breathing

#### Target Organ and Other Health Effects:

- Causes headache, drowsiness or other effects to the central nervous system.

**This product contains ingredients that may contribute to the following potential chronic health effects:**

- Prolonged exposure to respirable crystalline quartz silica may cause delayed chronic injury (silicosis).
- Possible sensitization.

**Carcinogens:**

- Possible cancer hazard. Contains material which may cause cancer based on animal data.
- Cancer hazard. Contains material which can cause cancer.

**3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
PROPRIETARY INERT	35 - 40	PROPRIETARY INERT
PROPRIETARY RESIN	5 - 10	PROPRIETARY RESIN
BISPHENOL A 80-05-7	1 - 5	Bisphenol A
TITANIUM DIOXIDE 13463-67-7	1 - 5	Titanium dioxide
SILICA 14808-60-7	.1 - 1	QUARTZ (SiO <sub>2</sub> )

If this section is blank there are no hazardous components per OSHA guidelines.

**4. FIRST AID MEASURES**

**Eye Contact:**

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart. Do not rub eye.

**Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

**Ingestion:**

Rinse mouth with water. Give one or two glasses of water. Never give anything by mouth to an unconscious person. Only induce vomiting at the instruction of medical personnel. Get medical attention.

**Inhalation:**

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration.

**Medical conditions aggravated by exposure:**

Any respiratory or skin condition.

**5. FIRE FIGHTING MEASURES**

Flash point (Fahrenheit):

950°F (510°C)

Lower explosive limit:

not determined %

Upper explosive limit:

not determined %

Autoignition temperature:

not determined -°F (°C)

Sensitivity to impact:

no

Sensitivity to static discharge:

Sensitivity to static discharge is not expected.

Hazardous combustion products:

See Section 10.

**Unusual fire and explosion hazards:**

Refer to 1995 edition of NFPA 33 Appendix A. A minimum explosive concentration of dust in the air of 30 grams per cubic meter of air can be used. Dust control and good housekeeping are required. Dust may also carry a static charge. Make sure equipment and personnel are grounded to avoid static discharge.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Decomposes without flashing

**6. ACCIDENTAL RELEASE MEASURES****Action to be taken if material is released or spilled:**

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**7. HANDLING AND STORAGE****Precautions to be taken in handling and storage:**

Minimize the free fall distance of powder when loading, unloading or conveying to avoid dust generation and potential static discharge. Keep container closed when not in use. Keep away from heat, sparks and open flame. - No smoking. To prevent caking of product, do not store above 80 degree F. (27 degree C.).

**8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS****Personal Protective Equipment****Eye and face protection:**

Safety glasses (with side shields) Chemical goggles, also wear a face shield if splashing hazard exists.

**Skin protection:**

Gloves: Neoprene or other nonporous.

**Other Personnel Protection Data:**

To prevent skin contact wear protective clothing covering all exposed areas. Chemical resistant apron

**Respiratory protection:**

Required for dusts and fume conditions. If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

**Ventilation**

Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment. Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas.

**Exposure Guidelines****OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
PROPRIETARY INERT	35 - 40	5 mg/m <sup>3</sup> Respirable fraction. 15 mg/m <sup>3</sup> Total dust.		

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
TITANIUM DIOXIDE 13463-67-7	1 - 5	15 mg/m <sup>3</sup> Total dust.		
SILICA 14808-60-7	.1 - 1	Respirable. Listed. Total dust. Listed.		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
PROPRIETARY INERT	35 - 40	10 mg/m <sup>3</sup> Inhalable particles. 3 mg/m <sup>3</sup> Respirable particles.			
TITANIUM DIOXIDE 13463-67-7	1 - 5	10 mg/m <sup>3</sup>			
SILICA 14808-60-7	.1 - 1	0.05 mg/m <sup>3</sup> Respirable fraction.			

## 9. PHYSICAL PROPERTIES

Odor:	Powder with no distinct odor.
Physical State:	powder
pH:	not determined
Vapor pressure:	not determined mmHg @ 68°F (20°C)
Boiling point:	not determined
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	12.73
Specific Gravity:	1.53
Evaporation rate (butyl acetate = 1.0):	not determined
Flash point (Fahrenheit):	950°F (510°C)
Lower explosive limit:	not determined %
Upper explosive limit:	not determined %
Autoignition temperature:	not determined °F (°C)

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatibility:	Acids
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

**Sensitivity to static discharge:** Sensitivity to static discharge is not expected.

## 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s

BISPHENOL A 80-05-7	1 - 5	Oral LD50 Rat : 3250 mg/kg Oral LD50 Mouse : 2400 mg/kg Dermal LD50 Rabbit : 3 mL/kg
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#### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA. Contains crystalline silica. The IARC has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (group 1). Refer to IARC monograph 68 in conjunction with the use of these materials. Risk of cancer depends on the duration and level of exposure. In coatings products, risk is due primarily to inhalation of sanding dusts or respirable particles in spray mists. The NTP has also determined that crystalline silica is a known human carcinogen in the form of fine, breathable particles. Risk of cancer depends on duration and level of exposure in coatings products, risk is due primarily to inhalation of sanding dust or respirable particles in spray mist.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
SILICA 14808-60-7	.1 - 1		Listed: October 1, 1988 Carcinogenic.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	1 - 5			2B Possible Carcinogen
SILICA 14808-60-7	.1 - 1	Monograph 68, 1997; (inhaled in the form of quartz or cristobalite from occupational sources)		

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
SILICA 14808-60-7	.1 - 1	Known carcinogen.		

Ingredient Name CAS-No.	Approx. Weight %	OSHA Select Carcinogens	OSHA Possible Select Carcinogens	ACGIH Carcinogens
SILICA 14808-60-7	.1 - 1			Group A2 Suspected human carcinogen.

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

Proper Shipping Name: PAINT, DRY, NOT REGULATED  
UN ID Number: NRPDRY

## 14. TRANSPORTATION INFORMATION

### U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### Reportable Quantity Description:

#### International Air Transport Association (IATA):

Proper Shipping Name: PAINT, DRY, NOT REGULATED  
UN ID Number: NRPDRY

#### International Maritime Organization (IMO):

Proper Shipping Name: PAINT, DRY, NOT REGULATED  
Non-Bulk UN ID Number: NRPDRY

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
BISPHENOL A 80-05-7	1 - 5		form R reporting required for 1.0% de minimis concentration	

### SARA 311/312 Hazard Class:

Acute: yes  
Chronic: yes  
Flammability: no  
Reactivity: no  
Sudden Pressure: no

### U.S. STATE REGULATIONS:

#### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

#### Pennsylvania Right To Know:

PROPRIETARY INERT	Trade Secret
TITANIUM DIOXIDE	13463-67-7
PROPRIETARY RESIN	Trade Secret
BISPHENOL A	80-05-7

#### Additional Non-Hazardous Materials

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

#### California Proposition 65:

WARNING! This product contains a chemical known in the State of California to cause cancer.

#### Rule 66 status of product

Not photochemically reactive.

### INTERNATIONAL REGULATIONS - Chemical Inventories

**US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

**16. OTHER INFORMATION****HMIS Codes**

Health:	2*
Flammability:	1
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

**Abbreviations:**

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

**Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

**Preparation Information:**

Prepared By:	Regulatory Affairs Department
Print date:	08/Jan/2009
Revision Date:	24/Dec/2008



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## NSF Product and Service Listings

These Listings were Last Updated on **Monday, August 31, 2009** at 4:15 AM Eastern Time.  
Please [contact NSF International](#) to confirm the status of any Listing, report errors, or make suggestions.

**Warning: NSF is concerned about fraudulent downloading and manipulation of website text. If you have received this listing in hard copy, always confirm this certification/listing information by going directly to <http://www.nsf.org/Certified/PwsComponents/Listings.asp?Company=16430&Standard=061> for the latest most accurate information.**

### NSF/ANSI STANDARD 61 Drinking Water System Components - Health Effects

**NOTE: Unless otherwise indicated for Materials, Certification is only for the Water Contact Material shown in the Listing. [Click here for a list of Abbreviations used in these Listings.](#)**

#### VALSPAR CORPORATION

901 3RD AVENUE SOUTH  
MINNEAPOLIS, MN 55402  
612-332-7371

**Facility :** COVINGTON, GA

#### Protective (Barrier) Materials

Trade Designation	Water Contact Size Restriction	Water Contact Temp	Water Contact Material
<b>Coatings - Fittings</b>			
IF-5817P Blue Epoxy[1] [3]	>= 2"	C. HOT	PEC
IF1947 Red Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF1947M Red Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF1947N Red Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF7393 Black Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
IF9450M[5]	>= 2"	C. HOT	EPOXY
IF9450MD[5]	>= 2"	C. HOT	EPOXY
IF9450ML[5]	>= 2"	C. HOT	EPOXY
IF9450MT[5]	>= 2"	C. HOT	EPOXY
IF9902[1] [2]	>= 2"	C. HOT	PEC

[1] Sold in two alternate grind sizes (T and F) and two alternate package sizes (D and L).  
The Listing applies to all grind size and package size designations.

[2] Number of Coats: 1  
Sequence of Coats: Any  
Maximum Field Use Dry Film Thickness (in mils): 8  
Recoat/Cure Time: 15 minutes at 400°F

[3] Number of Coats: 1  
Maximum Field Use Dry Film Thickness (in mils): 10  
Maximum Thinner: None  
Recoat/Cure Time: Final cure is 15 minutes at 375°F

[4] Number of Coats: 1

Maximum Field Use Dry Film Thickness (in mils): 20  
 Maximum Thinner: None  
 Recoat/Cure Time: Final cure is 10 minutes at 375°F

- [5] Number of Coats: 1  
 Maximum Field Use Dry Film Thickness (in mils): 12  
 Maximum Thinner: None  
 Recoat/Cure Time: 10 minutes at 400°F

#### Coatings - Pipe

IF-5817P Blue Epoxy[1] [3]	>= 2"	C. HOT	PEC
IF1947 Red Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF1947M Red Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF1947N Red Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF7393 Black Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF9450M[5]	>= 2"	C. HOT	EPOXY
IF9450MD[5]	>= 2"	C. HOT	EPOXY
IF9450ML[5]	>= 2"	C. HOT	EPOXY
IF9450MT[5]	>= 2"	C. HOT	EPOXY
IF9902[1] [2]	>= 2"	C. HOT	PEC

- [1] Sold in two alternate grind sizes (T and F) and two alternate package sizes (D and L).  
 The Listing applies to all grind size and package size designations.

- [2] Number of Coats: 1  
 Sequence of Coats: Any  
 Maximum Field Use Dry Film Thickness (in mils): 8  
 Recoat/Cure Time: 15 minutes at 400°F
- [3] Number of Coats: 1  
 Maximum Field Use Dry Film Thickness (in mils): 10  
 Maximum Thinner: None  
 Recoat/Cure Time: Final cure is 15 minutes at 375°F
- [4] Number of Coats: 1  
 Maximum Field Use Dry Film Thickness (in mils): 20  
 Maximum Thinner: None  
 Recoat/Cure Time: Final cure is 10 minutes at 375°F
- [5] Number of Coats: 1  
 Maximum Field Use Dry Film Thickness (in mils): 12  
 Maximum Thinner: None  
 Recoat/Cure Time: 10 minutes at 400°F

#### Coatings - Tank

IF-5817P Blue Epoxy[1] [3]	>= 4 gal.	C. HOT	PEC
IF1947 Red Oxide Epoxy[1] [4]	>= 4 gal.	C. HOT	PEC
IF1947M Red Oxide Epoxy[1] [4]	>= 4 gal.	C. HOT	PEC
IF1947N Red Oxide Epoxy[1] [4]	>= 4 gal.	C. HOT	PEC
IF7393 Black Oxide Epoxy[1] [4]	>= 4 gal.	C. HOT	PEC
IF9450M[5]	>= 4 gal.	C. HOT	EPOXY
IF9450MD[5]	>= 4 gal.	C. HOT	EPOXY
IF9450ML[5]	>= 4 gal.	C. HOT	EPOXY
IF9450MT[5]	>= 4 gal.	C. HOT	EPOXY
IF9902[1] [2]	>= 4 gal.	C. HOT	PEC

- [1] Sold in two alternate grind sizes (T and F) and two alternate package sizes (D and L).  
 The Listing applies to all grind size and package size designations.

- [2] Number of Coats: 1  
 Sequence of Coats: Any  
 Maximum Field Use Dry Film Thickness (in mils): 8  
 Recoat/Cure Time: 15 minutes at 400°F
- [3] Number of Coats: 1  
 Maximum Field Use Dry Film Thickness (in mils): 10  
 Maximum Thinner: None  
 Recoat/Cure Time: Final cure is 15 minutes at 375°F
- [4] Number of Coats: 1  
 Maximum Field Use Dry Film Thickness (in mils): 20  
 Maximum Thinner: None  
 Recoat/Cure Time: Final cure is 10 minutes at 375°F
- [5] Number of Coats: 1  
 Maximum Field Use Dry Film Thickness (in mils): 12  
 Maximum Thinner: None  
 Recoat/Cure Time: 10 minutes at 400°F

Coatings - Valve

IF-5817P Blue Epoxy[1] [3]	>= 2"	C. HOT	PEC
IF1947 Red Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF1947M Red Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF1947N Red Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF7393 Black Oxide Epoxy[1] [4]	>= 2"	C. HOT	PEC
IF9450M[5]	>= 2"	C. HOT	EPOXY
IF9450MD[5]	>= 2"	C. HOT	EPOXY
IF9450ML[5]	>= 2"	C. HOT	EPOXY
IF9450MT[5]	>= 2"	C. HOT	EPOXY
IF9902[1] [2]	>= 2"	C. HOT	PEC

- [1] Sold in two alternate grind sizes (T and F) and two alternate package sizes (D and L).  
The Listing applies to all grind size and package size designations.
- [2] Number of Coats: 1  
Sequence of Coats: Any  
Maximum Field Use Dry Film Thickness (in mils): 8  
Recoat/Cure Time: 15 minutes at 400°F
- [3] Number of Coats: 1  
Maximum Field Use Dry Film Thickness (in mils): 10  
Maximum Thinner: None  
Recoat/Cure Time: Final cure is 15 minutes at 375°F
- [4] Number of Coats: 1  
Maximum Field Use Dry Film Thickness (in mils): 20  
Maximum Thinner: None  
Recoat/Cure Time: Final cure is 10 minutes at 375°F
- [5] Number of Coats: 1  
Maximum Field Use Dry Film Thickness (in mils): 12  
Maximum Thinner: None  
Recoat/Cure Time: 10 minutes at 400°F

**Facility : NORTH KANSAS CITY, MO**

**Protective (Barrier) Materials**

<b>Trade Designation</b>	<b>Water Contact Size Restriction</b>	<b>Water Contact Temp</b>	<b>Water Contact Material</b>
Coatings - Fittings Pipeclad 1500 Red[1]	>= 4"	CLD 23	PEC
[1] Colors: Red Number of Coats: N/A Maximum Field Use Dry Film Thickness (in mils): 15 Maximum Thinner: None Recoat/Cure Time: 20 minutes at 400°F			
Coatings - Pipe Pipeclad 1500 Red[1]	>= 4"	CLD 23	PEC
[1] Colors: Red Number of Coats: N/A Maximum Field Use Dry Film Thickness (in mils): 15 Maximum Thinner: None Recoat/Cure Time: 20 minutes at 400°F			
Coatings - Valve Pipeclad 1500 Red[1]	>= 4"	CLD 23	PEC
LP4703G0 Watts Banner Blue Hybrid Powder[2]	>= 2"	D. HOT	PEC
LP4625G0 Iron Oxide Red Hybrid Powder[3]	>= 2"	D. HOT	PEC
PHA80043 Gray Hybrid[2]	>= 2"	D. HOT	PEC

- [1] Colors: Red  
Number of Coats: N/A  
Maximum Field Use Dry Film Thickness (in mils): 15  
Maximum Thinner: None  
Recoat/Cure Time: 20 minutes at 400°F
- [2] Colors: Blue or Gray  
Number of Coats: 4  
Maximum Field Use Dry Film Thickness (in mils): 44 (11 per coat)  
Recoat/Cure Time: 10 minutes at 400°F  
Special Comments: Cure time can be substituted with 7 minutes at 425°F or 15 minutes at 375°F.
- [3] Colors: Red  
Number of Coats: 4  
Maximum Field Use Dry Film Thickness (in mils): 11 DFT/Coat  
Recoat/Cure Time: 10 minutes at 400°F  
Special Comments: Cure time can be substituted with 425°F/7 minutes or 375°F/15 minutes.

Pipeclad 1500 Red/PM00341 is on reduced frequency. Its next collection date is 2001.

## Facility : CHARLOTTE, NC

### Protective (Barrier) Materials

Trade Designation	Water Contact Size Restriction	Water Contact Temp	Water Contact Material
<b>Coatings - Fittings</b>			
IF1947 Red Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
IF1947M Red Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
IF1947N Red Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
IF7393 Black Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
<p>[1] Sold in two alternate grind sizes (T and F) and two alternate package sizes (D and L). The Listing applies to all grind size and package size designations.</p> <p>[2] Number of Coats: 1 Maximum Field Use Dry Film Thickness (in mils): 20 Maximum Thinner: None Final Cure Time and Temperature: 10 minutes at 375°F</p>			
<b>Coatings - Pipe</b>			
IF1947 Red Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
IF1947M Red Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
IF1947N Red Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
IF7393 Black Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
<p>[1] Sold in two alternate grind sizes (T and F) and two alternate package sizes (D and L). The Listing applies to all grind size and package size designations.</p> <p>[2] Number of Coats: 1 Maximum Field Use Dry Film Thickness (in mils): 20 Maximum Thinner: None Final Cure Time and Temperature: 10 minutes at 375°F</p>			
<b>Coatings - Tank</b>			
IF1947 Red Oxide Epoxy[1] [2]	>= 4 gal.	C. HOT	PEC
IF1947M Red Oxide Epoxy[1] [2]	>= 4 gal.	C. HOT	PEC
IF1947N Red Oxide Epoxy[1] [2]	>= 4 gal.	C. HOT	PEC
IF7393 Black Oxide Epoxy[1] [2]	>= 4 gal.	C. HOT	PEC
<p>[1] Sold in two alternate grind sizes (T and F) and two alternate package sizes (D and L). The Listing applies to all grind size and package size designations.</p> <p>[2] Number of Coats: 1 Maximum Field Use Dry Film Thickness (in mils): 20 Maximum Thinner: None Final Cure Time and Temperature: 10 minutes at 375°F</p>			

## Coatings - Valve

IF1947 Red Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
IF1947M Red Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
IF1947N Red Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC
IF7393 Black Oxide Epoxy[1] [2]	>= 2"	C. HOT	PEC

[1] Sold in two alternate grind sizes (T and F) and two alternate package sizes (D and L). The Listing applies to all grind size and package size designations.

[2] Number of Coats: 1

Maximum Field Use Dry Film Thickness (in mils): 20

Maximum Thinner: None

Final Cure Time and Temperature: 10 minutes at 375°F

**Facility : JIADING DISTRICT, SHANGHAI, CHINA****Protective (Barrier) Materials**

<b>Trade Designation</b>	<b>Water Contact Size Restriction</b>	<b>Water Contact Temp</b>	<b>Water Contact Material</b>
<b>Coatings - Fittings</b>			
IF-5817P Blue Epoxy[2] [4]	>= 2"	C. HOT	PEC
IF1947 Red Oxide Epoxy[2] [3]	>= 2"	C. HOT	PEC
IF1947M Red Oxide Epoxy[2] [3]	>= 2"	C. HOT	PEC
IF1947N Red Oxide Epoxy[2] [3]	>= 2"	C. HOT	PEC
IF7393 Black Oxide Epoxy[2] [3]	>= 2"	C. HOT	PEC
IF9902M[1] [2]	>= 2"	C. HOT	PEC

[1] Number of Coats: 1

Maximum Field Use Dry Film Thickness (in mils): 8

Final Cure Time and Temperature: 15 minutes at 400°F

[2] Sold in two alternate grind sizes (T & F) and two alternate package sizes (D & L). The Listing applies to all grind size and package size designations.

[3] Number of Coats: 1

Maximum Field Use Dry Film Thickness (in mils): 20

Maximum Thinner: None

Final Cure Time and Temperature: 10 minutes at 375°F

[4] Number of Coats: 1

Maximum Field Use Dry Film Thickness (in mils): 10

Maximum Thinner: None

Final Cure Time and Temperature: 15 minutes at 375°F

## Coatings - Pipe

IF-5817P Blue Epoxy[2] [4]	>= 2"	C. HOT	PEC
IF1947 Red Oxide Epoxy[2] [3]	>= 2"	C. HOT	PEC
IF1947M Red Oxide Epoxy[2] [3]	>= 2"	C. HOT	PEC
IF1947N Red Oxide Epoxy[2] [3]	>= 2"	C. HOT	PEC
IF7393 Black Oxide Epoxy[2] [3]	>= 2"	C. HOT	PEC
IF9902M[1] [2]	>= 2"	C. HOT	PEC

[1] Number of Coats: 1

Maximum Field Use Dry Film Thickness (in mils): 8

Final Cure Time and Temperature: 15 minutes at 400°F

[2] Sold in two alternate grind sizes (T & F) and two alternate package sizes (D & L). The Listing applies to all grind size and package size designations.

[3] Number of Coats: 1

Maximum Field Use Dry Film Thickness (in mils): 20

Maximum Thinner: None

Final Cure Time and Temperature: 10 minutes at 375°F

[4] Number of Coats: 1

Maximum Field Use Dry Film Thickness (in mils): 10

Maximum Thinner: None

Final Cure Time and Temperature: 15 minutes at 375°F