

### CPCPB418

### 2.1 VOC Corrosion Resistant Epoxy Primers

# <21 Series F

CRE-121 White Epoxy Primer CRE-321 **Gray Epoxy Primer** CRE-921 Black Epoxy Primer CRE-2xx Tintable\*

The CRE-X21 Series Primers provide a range of performance features that include excellent adhesion and chemical resistance and outstanding corrosion protection when applied over properly prepared steel and aluminum.

At 2.1 lbs/gal VOC as blended or when further reduced with exempt solvents, this series is lead and chrome-free and offers high build properties. Its excellent sag resistance and fill properties make this primer well suited for application over a sandblasted profile.

Note: For acceptable compatibility between this primer and CPC topcoats please see the CPC Primer/Topcoat compatibility chart (CPCTB01).

### **Features and Benefits:**

- · Capable of high film build
- · Provide excellent adhesion
- Provide strong corrosion and chemical resistance
- Are plural component capable
- · CRE standard primers can be intermixed
- · \*Tintable version is tinted with 7 ounces of H series tints to create custom colors
- · May be used over ZNP Series zinc rich primers

### **Associated Products:**

- · CRE-121 2.1 VOC White Epoxy Primer
- · CRE-321 2.1 VOC Gray Epoxy Primer
- 2.1 VOC Black Epoxy Primer · CRE-921
- CRE-2xx 2.1 VOC Tintable Epoxy Primer
- · CRE-211H Catalyst for CRE-X21 Primers
- Exempt Solvent: Q30 Acetone
- Non-Exempt Solvents\*: Q50 Aromatic 100, Q60 MEK, Q70 MAK, Q80 Xylene, Q160 Aromatic 150
- \* Addition results in VOC greater than 2.1 lbs/gal

Physical Constants: All values are theoretical, depend on color and are Ready-to-Spray. Actual values could vary slightly due to manufacturing variability.

	CRE-X21 or CRE-2xx w/tint	CRE-X21 or CRE-2xx w/tint: CRE-211H	CRE-X21 or CRE-2xx w/tint : CRE-211H : Q30	CRE-X21 or CRE-2xx w/tint : CRE-211H : Q50, Q60, Q70, Q80, Q160
Percent solids (by weight)	66.6 – 70.0	70.2 – 72.6	63.5 – 66.0	62.8 - 65.9
Percent solids (by volume)	53.4 – 56.5	60.7 - 62.8	52.0 - 53.8	52.0 - 53.8
HAPs (lbs/gallon of product)	≤ 1.1	≤ 1.0	≤ 1.0	≤ 1.9
Photo-chemically reactive	Yes	Yes	Yes	Yes
RTS Combinations:	CRE-X21 (Package) or CRE-2xx w/ tint	CRE-X21 or CRE-2xx w/tint : CRE-211H	CRE-X21 or CRE-2xx w/tint : CRE-211H : Q30	CRE-X21 or CRE-2xx w/tint : CRE-211H : Q60
Volume Ratio: Applicable Use Category	As is Primer	2 : 1 Primer	2 : 1 : 1/2 Primer	2 : 1 : 1/2 Primer
VOC Actual	194 – 222 g/L 1.62 – 1.85 lbs/gal	197 – 216 g/L 1.65 – 1.80 lbs/gal	169 – 185 g/L 1.42 – 1.55 lbs/gal	284 – 312 g/L 2.38 – 2.61 lbs/gal
VOC Regulatory (less water less exempt)	244 – 277 g/L 2.04 – 2.31	229 – 249 g/L 1.91 – 2.08	229 – 249 g/L 1.91 – 2.08	321 – 352 g/L 2.68 – 2.94
Density	1372 – 1461 g/L 11.45 - 12.19 lbs/gal	1255 – 1315 g/L 10.47 – 10.97 lbs/gal	1188 – 1239 g/L 9.91 – 10.34 lbs/gal	1190 – 1253 g/L 9.93 – 10.46 lbs/gal
Volatiles wt. %	30.0 - 33.4	27.4 – 29.8	34.0 – 36.4	34.1 – 37.2
Water wt. %	0.3 - 0.8	0.2 - 0.6	0.2 - 0.6	0.2 – 0.6
Exempt wt. %	15.4 - 17.8	11.4 – 13.0	19.5 – 21.1	10.2 – 11.8
Water vol. %	0.4 - 1.2	0.3 - 0.8	0.3 - 0.7	0.2 - 0.7
Exempt vol. %	17.3 - 20.8	11.5 – 13.8	24.1 – 26.1	9.9 – 11.9

Flashpoint: CRE-121 = 65°F (18°C) CRE-2xx = 65°F (18°C) CRE-321 = 65°F (18°C)

CRE-211H = 59°F (15°C)

Q30 =  $4^{\circ}F$  (-6°C)

 $Q50 = 106^{\circ}F (41^{\circ}C)$  $Q70 = 102^{\circ}F(39^{\circ}C)$ 

CRE-921 = 65°F (18°C)

 $Q60 = 21^{\circ}F (6^{\circ}C)$ Q80 = 81°F (27°C) Q160 = 145°F (63°C)



### **Directions for Use**

### **Substrate Preparation:**

The surface to be coated must be abraded or sandblasted and free of all contamination (including dust, dirt, oil, grease and oxidation). A chemical treatment (or conversion coating) will improve adhesion and performance properties of the finished coat. Variability can occur with substrates, preparation, application method or environment. We recommend that adhesion and system compatibility be checked prior to full application.

Substrate	Direct to Substrate	Substrate	Direct to Substrate
Cold Rolled Steel	Excellent	Galvanized	Excellent
Hot Rolled Steel	Excellent	Aluminum	Excellent
Stainless Steel	Excellent	Plastic / Fiberglass	Surface should be free of all contamination. Because
Galvaneal	Excellent		of the variability of plastic/fiberglass substrates, coating performance should be confirmed on the
			actual plastic/fiberglass substrate being used.

<sup>\*</sup> It is recommended that the substrate be cleaned with SSPC-SPC2 Hand Tool or SSPC-SPC3 Power Tool clean Minimum. For best performance, a minimum blast of SSPC-SP6 (NACE#3), Commercial Blast Cleaning is recommended.

### **Mix Directions:**



Mix Directions	Thoroughly agitate component A on mechanical shaker prior to mixing. Stir thoroughly before and occasionally during use.
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Thinning: To maintain 2.1 VOC, Q30 (Acetone) or other exempt solvents may be used. To achieve 2.8 VOC, ½ part of Non-Exempt Solvent may be used. When applying with airless equipment reduction may not be necessary.



Blend Ratio	CRE-X21	:	CRE-211H	:	Optional Regular or Exempt Solvent
	2.		1	•	1/3

Pot Life @ 77°F (25°C): 2 hours when reduced with any approved exempt or non-exempt solvent Spray Viscosity Range: #3 Zahn = 10 – 20 seconds

Shelf Life: (each component unopened)

CRE-X21- 4 years in gallon containers, 2 years in 5-gallon containers CRE-211H Catalyst - 2 years

### **Application Equipment:**



Conventional (with or without pressure pot): HVLP (with or without pressure pot): Airless;

Air-Assisted Airless:

Brush or Roll:

Electrostatic:

1.4 - 1.8 mm needle/nozzle with 50 - 70 psi at the gun

1.3 – 1.6 mm needle/nozzle with 10 psi at cap or per manufacturer 0.013 – 0.017 tip with a fluid pressure of 2000 – 2400 psi

0.013 – 0.017 tip with a fluid pressure of 1520 – 1800 psi with 25 – 30 psi air pressure Apply blended CRE-2XX and CRE-X21 using a high quality natural bristle brush or with a 3/8 solvent resistant nap roller, rolling in one direction. CRE may be reduced 10 – 15% with the slower evaporating Q-code solvents for ease of leveling and flow. \* Use of these solvents will result in a blended VOC greater than 2.1 lbs/gal.

Minimum 1.5 mm tip with recommended reduction ratio using Q30, Q60 or Q70 solvent.

### Application:



Apply:

1 – 2 wet coats with a 10 – 15 minute flash between coats.

Apply only when air, product and surface temperatures are above 60°F (16°C) and when surface temperature is at least 5°F (3°C) above the dew point.

Recommended Total Wet Film Build: Recommended Total Dry Film Build: Square Foot Coverage @ 1 mil no loss: CRE-X21 : CRE-211H

CRE-X21: CRE-211H: Exempt Solvent

3-13 mils 4-15 mils 2-8 mils 2-8 mils

973 – 1007 sq. ft. 834 – 863 sq. ft. (dependent on color) (dependent on color)

### **Dry Times:**



Air Dry @ 77°F (25°C) 50% RH\*:

To Touch 90 – 120 minutes
To Handle 2 – 3 hours\*

To Recoat 1 hour – 4 days. After 4 days the primer must be sanded before recoating.

To Topcoat 1 hour – 4 days. Medium to full wet coats should be applied. After 4 days, the primer must be sanded before topcoating.

This CRE primer may be recoated with itself up to 2 weeks after initial application without sanding as long as the primer remains free of contaminants. Primed surface may be cleaned with an appropriate CFX cleaner if necessary before topcoating.

Force Dry @ 140°F (60°C): 40 minutes at 140°F (60°C) after 15 minute flash at 77°F (25°C)

\* Paint film is not fully cured for 7 days. Drying time varies, depending upon film build, color selection, temperature, humidity and degree of air movement.

### **Technical Data\***

Performance Properties: In Service Temperature Limit Complete paint system, including appropriate topcoat, dry temperature limit = 300°F. (149°C). If the in-service part has primer only, the color of the primer will change as you approach 300°F. Primer integrity will be maintained up to 300°F. If the primed part has been exposed to elevated temperatures for any extended period of time, the part must be cleaned and sanded prior to topcoating.

### **Technical Properties:**

BONDERITE® 1000 CRE-321 No Topcoat

Test	ASTM Method	Results	
Pencil Hardness	D3363	F	
Adhesion	D3359	5B	
Chip Resistance	D3170	6	

### **Chemical Resistance:**

Bonderite 1000 CRE-321 No Topcoat

Chemical	ASTM Method	Result	
Toluene	D1308	Very Slight Ring	
10% NaOH (Sodium Hydroxide)	D1308	Pass	
10% HCl (Hydrochloric acid)	D1308	Slight gloss loss	
10% H <sub>2</sub> SO <sub>4</sub> (Sulphuric acid)	D1308	Moderate gloss loss	
Gasoline	D1308	Pass	
Isopropanol	D1308	Pass	
Water**	D1308	Pass	

<sup>\*\*</sup> Although resistant to intermittent exposure, this product is not recommended for immersion.

### Weather Resistance:

Salt Spray System: Blasted Hot Rolled Steel CRE-321 AUE-300 Urethane

Humidity System:
Bonderite 1000
CRE-321
AUE-300 Urethane

	ASTM Method	Result
Salt Spray – 1000 hours	B117	
Corrosion Creep***	D1654	9A
Scribe Blisters	D714	4F
Face Blisters	D714	None
*** Results based upon 4 – 5 mils DFT.		
Humidity – 100 hours	D2247	
5 Minute Recovery Adhesion	D3359	5B
1 Hour Recovery Adhesion	D3359	5B
24 Hour Recovery Adhesion	D3359	5B

All tests results assume proper cure and preparation of test substrates. Unless otherwise stated, all results were obtained spraying product direct to metal on Bonderite 1000.

<sup>\*</sup> The application and performance property data above are believed to be reliable based on laboratory findings. It is for the buyer to satisfy itself on the suitability of the product for its particular use. Variation in environment, procedures of use, or extrapolation of data may cause unsatisfactory results.

2.1 VOC Corrosion Resistant Epoxy Primers

**Health and Safety:** 



Please refer to Material Data Safety Sheets (MSDS) for full health safety details and storage regulations.

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

### EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION (412) 434-4515. IN CANADA (514) 645-1320.

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to PPG Industries. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does PPG Industries warrant freedom from patent infringement in the use of any formula or process set forth herein.



PPG Industries 19699 Progress Drive Strongsville, OH 44149 1-800-647-6050 PPG Canada Inc. 2301 Royal Windsor Drive, Unit #6 Mississauga, Ontario L5J 1K5 1-888-310-4762

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### CPCPB418

### 2.1 VOC Corrosion Resistant Epoxy Primers

# E-X21 Series Primer

CRE-121 White Epoxy Primer CRE-321 **Gray Epoxy Primer** CRE-921 Black Epoxy Primer CRE-2xx Tintable\*

The CRE-X21 Series Primers provide a range of performance features that include excellent adhesion and chemical resistance and outstanding corrosion protection when applied over properly prepared steel and aluminum.

At 2.1 lbs/gal VOC as blended or when further reduced with exempt solvents, this series is lead and chrome-free and offers high build properties. Its excellent sag resistance and fill properties make this primer well suited for application over a sandblasted profile.

Note: For acceptable compatibility between this primer and CPC topcoats please see the CPC Primer/Topcoat compatibility chart (CPCTB01).

### Features and Benefits:

- · Capable of high film build
- · Provide excellent adhesion
- Provide strong corrosion and chemical resistance
- Are plural component capable
- CRE standard primers can be intermixed
- · \*Tintable version is tinted with 7 ounces of H series tints to create custom colors
- May be used over ZNP Series zinc rich primers

### **Associated Products:**

- 2.1 VOC White Epoxy Primer · CRE-121
- · CRE-321 2.1 VOC Gray Epoxy Primer
- 2.1 VOC Black Epoxy Primer · CRE-921
- · CRE-2xx 2.1 VOC Tintable Epoxy Primer
- CRE-211H Catalyst for CRE-X21 Primers
- Exempt Solvent: Q30 Acetone
- Non-Exempt Solvents\*: Q50 Aromatic 100, Q60 MEK, Q70 MAK, Q80 Xylene, Q160 Aromatic 150
- \* Addition results in VOC greater than 2.1 lbs/gal

Physical Constants: All values are theoretical, depend on color and are Ready-to-Spray. Actual values could vary slightly due to manufacturing variability.

1,	CRE-X21 or CRE-2xx w/tint	CRE-X21 or CRE-2xx w/tint : CRE-211H	CRE-X21 or CRE-2xx w/tint : CRE-211H : Q30	CRE-X21 or CRE-2xx w/tint : CRE-211H : Q50, Q60, Q70, Q80, Q160
Percent solids (by weight)	66.6 – 70.0	70.2 – 72.6	63.5 – 66.0	62.8 - 65.9
Percent solids (by volume)	53.4 - 56.5	60.7 - 62.8	52.0 - 53.8	52.0 - 53.8
HAPs (lbs/gallon of product)	≤ 1.1	≤ 1.0	≤ 1.0	≤ 1.9
Photo-chemically reactive	Yes	Yes	Yes	Yes
RTS Combinations:	CRE-X21 (Package) or CRE-2xx w/ tint	CRE-X21 or CRE-2xx w/tint : CRE-211H	CRE-X21 or CRE-2xx w/tint : CRE-211H : Q30	CRE-X21 or CRE-2xx w/tint : CRE-211H : Q60
Volume Ratio:	As is	2:1	2:1:1/2	2:1:1/2
Applicable Use Category	Primer	Primer	Primer	Primer
VOC Actual	194 – 222 g/L 1.62 – 1.85 lbs/gal	197 – 216 g/L 1.65 – 1.80 lbs/gal	169 – 185 g/L 1.42 – 1.55 lbs/gal	284 – 312 g/L 2.38 – 2.61 lbs/gal
VOC Regulatory (less water less exempt)	244 – 277 g/L 2.04 – 2.31	229 – 249 g/L 1.91 – 2.08	229 – 249 g/L 1.91 – 2.08	321 – 352 g/L 2.68 – 2.94
Density	1372 – 1461 g/L 11.45 - 12.19 lbs/gal	1255 — 1315 g/L 10.47 — 10.97 lbs/gal	1188 – 1239 g/L 9.91 – 10.34 lbs/gal	1190 – 1253 g/L 9.93 – 10.46 lbs/gal
Volatiles wt. %	30.0 - 33.4	27.4 – 29.8	34.0 - 36.4	34.1 – 37.2
Water wt. %	0.3 - 0.8	0.2 - 0.6	0.2 - 0.6	0.2 – 0.6
Exempt wt. %	15.4 - 17.8	11.4 – 13.0	19.5 – 21.1	10.2 – 11.8
Water vol. %	0.4 - 1.2	0.3 - 0.8	0.3 - 0.7	0.2 - 0.7
Exempt vol. %	17.3 - 20.8	11.5 – 13.8	24.1 – 26.1	9.9 – 11.9

CRE-321 = 65°F (18°C) CRE-921 = 65°F (18°C)

Flashpoint: CRE-121 = 65°F (18°C) CRE-2xx = 65°F (18°C)

CRE-211H = 59°F (15°C)

Q30 =  $4^{\circ}F$  (-6°C)  $Q60 = 21^{\circ}F (6^{\circ}C)$ 

 $Q50 = 106^{\circ}F (41^{\circ}C)$  $Q70 = 102^{\circ}F(39^{\circ}C)$ 

Q80 = 81°F (27°C) Q160 = 145°F (63°C)



## (21 Series Primers

### Directions for Use

### **Substrate Preparation:**

The surface to be coated must be abraded or sandblasted and free of all contamination (including dust, dirt, oil, grease and oxidation). A chemical treatment (or conversion coating) will improve adhesion and performance properties of the finished coat. Variability can occur with substrates, preparation, application method or environment. We recommend that adhesion and system compatibility be checked prior to full application.

Substrate	Direct to Substrate	Substrate	Direct to Substrate
Cold Rolled Steel Hot Rolled Steel	Excellent Excellent	Galvanized Aluminum	Excellent Excellent
Stainless Steel Galvaneal	Excellent Excellent	Plastic / Fiberglass	Surface should be free of all contamination. Because of the variability of plastic/fiberglass substrates, coating performance should be confirmed on the
			actual plastic/fiberglass substrate being used.

<sup>\*</sup> It is recommended that the substrate be cleaned with SSPC-SPC2 Hand Tool or SSPC-SPC3 Power Tool clean Minimum. For best performance, a minimum blast of SSPC-SP6 (NACE#3), Commercial Blast Cleaning is recommended.

### **Mix Directions:**



Mix Directions	Thoroughly agitate component A on mechanical shaker prior to mixing. Stir thoroughly before and occasionally during use.
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To maintain 2.1 VOC, Q30 (Acetone) or other exempt solvents may be used. Thinning: To achieve 2.8 VOC, ½ part of Non-Exempt Solvent may be used. When applying with airless equipment reduction may not be necessary.



Blend Ratio	CRE-X21	:	CRE-211H	: Opti	onal Regular or Exempt Solvent
	2		1		16

Pot Life @ 77°F (25°C): 2 hours when reduced with any approved exempt or non-exempt solvent

Spray Viscosity Range: #3 Zahn = 10 - 20 seconds

Shelf Life: (each CRE-X21- 4 years in gallon containers, 2 years in 5-gallon containers CRE-211H Catalyst - 2 years component unopened)

### **Application Equipment:**



Conventional (with or 1.4 - 1.8 mm needle/nozzle with 50 - 70 psi at the gun without pressure pot): HVLP (with or without

1.3 - 1.6 mm needle/nozzle with 10 psi at cap or per manufacturer pressure pot): 0.013 - 0.017 tip with a fluid pressure of 2000 - 2400 psi Airless:

0.013 - 0.017 tip with a fluid pressure of 1520 - 1800 psi with 25 - 30 psi air pressure Apply blended CRE-2XX and CRE-X21 using a high quality natural bristle brush or with a 3/8 solvent resistant nap roller, rolling in one direction. CRE may be reduced 10 – 15% with the slower evaporating Q-code solvents for ease of leveling and flow. \* Use of these solvents will result in a blended VOC greater than 2.1 lbs/gal.

Minimum 1.5 mm tip with recommended reduction ratio using Q30, Q60 or Q70 solvent.

### Application:



Apply: 1-2 wet coats with a 10-15 minute flash between coats.

Apply only when air, product and surface temperatures are above 60°F (16°C) and when surface temperature is at least 5°F (3°C) above the dew point.

CRE-X21: CRE-211H Recommended Total Wet Film Build: Recommended Total

3-13 mils 4-15 mils

2-8 mils

2-8 mils

CRE-X21: CRE-211H: Exempt Solvent

Dry Film Build: Square Foot Coverage @ 1mil no loss:

Air-Assisted Airless: Brush or Roll:

Electrostatic:

973 - 1007 sq. ft. (dependent on color)

834 - 863 sq. ft. (dependent on color)

### **Dry Times:**



### Air Dry @ 77°F (25°C) 50% RH\*:

To Touch 90 - 120 minutes

To Handle 2-3 hours\*

To Recoat 1 hour – 4 days. After 4 days the primer must be sanded before recoating. 1 hour – 4 days. Medium to full wet coats should be applied. To Topcoat

After 4 days, the primer must be sanded before topcoating.

This CRE primer may be recoated with itself up to 2 weeks after initial application without sanding as long as the primer remains free of contaminants. Primed surface may be cleaned with an appropriate CFX cleaner if necessary before topcoating.

Force Dry @ 140°F (60°C): 40 minutes at 140°F (60°C) after 15 minute flash at 77°F (25°C)

\* Paint film is not fully cured for 7 days. Drying time varies, depending upon film build, color selection, temperature, humidity and degree of air movement.

### **Technical Data\***

Performance Properties: In Service Temperature Limit Complete paint system, including appropriate topcoat, dry temperature limit = 300°F. (149°C). If the in-service part has primer only, the color of the primer will change as you approach 300°F. Primer integrity will be maintained up to 300°F. If the primed part has been exposed to elevated temperatures for any extended period of time, the part must be cleaned and sanded prior to topcoating.

### **Technical Properties:**

BONDERITE® 1000 CRE-321 No Topcoat

Test	ASTM Method	Results
Pencil Hardness	D3363	F
Adhesion	D3359	5B
Chip Resistance	D3170	6

### **Chemical Resistance:**

Bonderite 1000 CRE-321 No Topcoat

Chemical	ASTM Method	Result
Toluene	D1308	Very Slight Ring
10% NaOH (Sodium Hydroxide)	D1308	Pass
10% HCl (Hydrochloric acid)	D1308	Slight gloss loss
10% H <sub>2</sub> SO <sub>4</sub> (Sulphuric acid)	D1308	Moderate gloss loss
Gasoline	D1308	Pass
Isopropanol	D1308	Pass
Water**	D1308	Pass

<sup>\*\*</sup> Although resistant to intermittent exposure, this product is not recommended for immersion.

### Weather Resistance:

Salt Spray System: Blasted Hot Rolled Steel CRE-321 AUE-300 Urethane

Salt Spray - 1000 hours	B117	
Corrosion Creep***	D1654	9A
Scribe Blisters	D714	4F
Face Blisters	D714	None
*** Results based upon 4 – 5 mils DFT.		
Humidity – 100 hours	D2247	
5 Minute Recovery Adhesion	D3359	5B
1 Hour Recovery Adhesion	D3359	- 5B
24 Hour Recovery Adhesion	D3359	5B

**ASTM Method** 

Result

Humidity System: Bonderite 1000 CRE-321 AUE-300 Urethane

All tests results assume proper cure and preparation of test substrates. Unless otherwise stated, all results were obtained spraying product direct to metal on Bonderite 1000.

<sup>\*</sup> The application and performance property data above are believed to be reliable based on laboratory findings. It is for the buyer to satisfy itself on the suitability of the product for its particular use. Variation in environment, procedures of use, or extrapolation of data may cause unsatisfactory results.

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