Corashield®

WATERBORNE ANTI-CHIP COATING

P8001

CSPB-001

Product Description

CORASHIELD® P8001 is a one component waterborne coating designed to prevent chipping, cracking or marring of painted or unpainted surfaces after exposure to high impact sand, gravel or other abrasive materials.

Advantages

- Can be applied via spray, brush, roller or trowel spreader
- One component
- Air dry
- High performance-to-price ratio
- Waterborne
- Light weight

Technical Properties

Resin Chemistry:	Acrylic
Physical State:	Liquid - Viscous
Color:	Black
Odor:	Slight Ammonia
Flash Point	208°C (406°F)
Viscosity:	38,000 cps
pH:	9.7
HAP (lbs/gal)	0.0
Storage Temp.:	10 – 32°C (50 – 90°F)
Shelf Life:	Stable
Specific Gravity:	1.04
Solids Wt.%	60.3
Sq Ft. Cov./ US gal. I mil @ 100% T.E.	637

RTS Blend Ratio:	as is (package)
Applicable Use Category:	Single-Stage Ctg., Primer, Other
VOC Actual (g/L)	5
VOC Actual (lbs/gal)	> 0.1
VOC Regulatory (g/L) (less water less exempt)	8
VOC Regulatory (lbs/gal) (less water less exempt)	> 0.1
Density (g/L)	1040
Density (lbs/gal)	8.68
Volatiles wt. %	49.8
Water wt. %	34.7
Exempt wt. %	0.0
Water vol. %	36.2
Exempt vol. %	0.0
Solids vol%	39.7

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Corashield Products tested to NES M5062

Specification Testing

Products tested on ED6060 @ 10 mils dry Test Item		P8001 Result
General Property		
State in container		Free of impurity and lumps, free from separation
Specific gravity		1
Viscosity	Brookfield	38,000 cps
Non volatile matter		60%
Storage stability	State in container	Free from separation
Property of material		
Hardness		79
Fluidity @ 25 mils wet	Vertical	0 mm
Fluidity @ 25 mils wet	Inverted	0 mm
Surface appearance		Free from cracking, peeling, pinhole, sagging, discoloration
Adhesion	Cross Hatch	100/100
Bend resistance	90 mm diameter Mandrel, 180˚ bend	Free from cracking and peeling
Impact resistance	500 grams @ 30 cm	Free from cracking and peeling
Gravelometer chipping resistance	5 pints	0 Rust points
Thermal cycle	3 cycles	
	Appearance surface	Free from cracking, peeling, etc.
	Adhesion	100/100
	Impact resistance	Free from cracking and peeling
	Gravelometer chipping resistance	2 Rust points
Humidity resistance	120 hours	
	Appearance surface	Free from cracking, peeling, etc.
	Adhesion	100/100
	Impact resistance	Free from cracking and peeling
	Gravelometer chipping resistance	3 Rust points
Cold resistance	-30˚F	
	Impact resistance	Free from cracking and peeling
	Gravelometer chipping resistance	4 Rust points
Water immersion resistance	168 hours	Free from significant softening
Acid resistance	2 w/v% Sulfuric acid	Free from cracking, peeling, etc.
Alkali resistance	5% caustic soda solution	Free from cracking, peeling, etc.
Corrosion resistance	Compound corrosion (100 cycles)	Corroded width of grids—2 mm, 0% peeling
	Salt spray period (1000 hours)	Corroded width of grids—0 mm, 0% peeling
Weathering resistance	Sunshine weatherometer	
	Appearance surface	Free from cracking, peeling, etc.
	Adhesion	100/100
	Gravelometer chipping resistance	3 Rust points
Warm salt water resistance		Free from cracking, peeling, etc.
Dryness	Dry to touch	20 minutes
	Dry Hard	24 Hours

Panel tests were performed after 72 hours @ Room Temperature

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Waterborne Anti-chip Coating P8001

Equipment Information

P8001 is applied using airless spray gun equipment and may be pumped with a 30:1 or 50:1 pump with a siphon feed. If needed, P8001 can be applied using a special 50:1 high pressure pump with a ram feed.

In most cases, final air pressure of 2,200 – 3,200 psi is sufficient. Pumps should be constructed of stainless steel contact components.

Use and Control Instructions

Apply coating onto substrate and air dry at room temperature. Material will be dry to touch within 90 minutes, dry hard within 24 hours and be fully cured within 72 hours.

- Coating should be applied at 18-22 mils wet to achieve 10-13 mils dry
- Coating must be applied at ambient temperatures of 50°F to 90°F
- Humidity must be 0% to 80% to dry within 30 minutes
- Substrate cannot exceed 100°C when coating is being applied
- Do not expose coating to freezing temperatures
- Heat of 82°C or less can be used to force dry the coated parts
- Excessive temperatures can cause product blistering
- Air drying is the recommended process
- Shelf-life is 3 months
- Recommended storage temperature is 10 – 32°C (50 – 90°F)

Substrate surface must be clean and dry before applying CORASHIELD® P8001
Remove excess dust, dirt and debris from the substrates to be bonded with a clean, dry lint-free cloth. Wiping the substrate with a solvent or degreaser may be necessary to remove any oils, grease or tar from the surface. Power washing may also be used to remove any dirt and loose material from the substrate surface.

This is a water-based coating and cannot be exposed to freezing temperatures.

CORASHIELD P8001 will skin over once opened so reseal container tightly.

Clean Up

Wet Coatings: Use water for clean-up

Semi-Dried Coatings: Mixture of isopropyl alcohol and water should be used

Dried Coatings: GXKH9001 or an aliphatic and / or aromatic solvent should be used to remove uncured adhesive

Precautions

Consult the most recent Material Safety Data Sheets for health and safety information relative to the safe handling and storage of this material, and all reagents and indicators used to control this material. Emergency 24 hour CHEMTREC number: 800.424.9300

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