

# RR&C Concrete Epoxy Primer

## SELECTION & SPECIFICATION DATA

<b>Type</b>	Epoxy Primer
<b>Description</b>	RR&C Concrete Epoxy Primer is a penetrating, moisture-tolerant epoxy primer that seals porous concrete surfaces to prevent outgassing and associated blisters and pinholes. It promotes adhesion to a variety of finish coats.
<b>Features</b>	<ul style="list-style-type: none"> <li>• No VOCs</li> <li>• Exceptional wetting characteristics</li> <li>• Low stress, highly flexible film</li> <li>• Adheres to damp concrete</li> <li>• Green concrete primer (7+ days)</li> </ul>
<b>Uses</b>	<ul style="list-style-type: none"> <li>• Concrete primer/sealer</li> <li>• Binder for RR&amp;C Lightweight Concrete Repair Aggregate</li> <li>• Universal binder for trowel applied flooring</li> <li>• Binder for concrete resurfacing mortar</li> </ul>
<b>Color</b>	Clear
<b>Finish</b>	Gloss
<b>Dry Film Thickness (DFT)</b>	3 - 5 mils per coat
<b>Solids Content</b>	99 - 100% by volume
<b>Limitations</b>	Will lose gloss, discolor, and chalk in sunlight.

## SUBSTRATES & SURFACE PREPARATION

<b>All</b>	Substrate must be clean, dry and free of contaminants.
<b>Steel</b>	<p>Immersion: SSPC-SP 10/NACE 2 Near White Metal Blast with angular profile of 2.5 - 3.5 mils.</p> <p>Non-immersion: SSPC-SP 6/NACE 3 Commercial Blast with angular profile of 1.5 - 3.0 mils, SSPC-SP 2 Hand Tool or SSPC-SP 3 Power Tool Cleaning are suitable for mild environments.</p>
<b>Concrete or Concrete Masonry Units (CMU)</b>	Concrete must be cured a minimum of 7 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with SSPC-SP 13/NACE 6. Required surface profile is CSP 1 as stand-alone coating, CSP 3-5 under a topcoat. Voids in concrete surfaces may require filling. Mortar joints should be cured a minimum of 15 days.

## MIXING & THINNING

<b>Mixing</b>	Thinning not required. Do not mix partial kits. Power mix parts A and B separately, then combine and power mix.	
<b>Pot Life</b>	<b>150 GRAM SAMPLE</b>	
	<b>TEMPERATURE</b>	<b>HOURS/MINUTES</b>
	50°F (10°C)	19 hrs 46 min
	77°F (25°C)	6 hrs 9 min
	122°F (50°C)	0 hrs 48 min
	Pot life is shorter at higher temperatures. A larger volume of mixed material will have a shorter pot life than a smaller volume.	
<b>Cleanup</b>	MEK or Acetone	

## APPLICATION GUIDELINES

<b>Spray Application</b>	The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.
<b>Airless Spray Single Leg or Hot Pot</b>	<p>Pump Size: 30:1 or greater  Hose Length: 200 ft x 3/8-inch ID  Whip Length: 10 ft x 1/4-inch ID</p> <p>Part A resin and Part B hardener should be heated individually to 75°F - 85°F (24°C - 29°C) before mixing so product will atomize properly in delivering paint to the substrate.</p>
<b>Brush &amp; Roller</b>	This material may be applied with brush or roller. Be aware of working life when using a brush or roller.
<b>Brush</b>	Medium bristle brush.
<b>Roller</b>	Short-nap synthetic roller cover with phenolic core.

## CURE SCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT
77°F (25°C)	24 hours	14 days
100°F (37°C)	4 hours	48 hours
Return-to-service varies with chemical exposure. Consult with your Sherwin-Williams representative for guidance.		

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## PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
CEP-1GLKT-SW	RR&C Concrete Epoxy Primer	1 gal (3.8 L) Kit
	- Part A Resin - Part B Hardener	5.7 lbs (2.6 kg) Pail 3.4 lbs (1.5 kg) Jerrican
CEP-5GLKT-SW	RR&C Concrete Epoxy Primer	4.8 gal (18.7 L) Kit
	- Part A Resin - Part B Hardener	27 lbs (12 kg) Pail 16 lbs (7.3 kg) Pail

**Theoretical Coverage** Concrete: 320 - 530 square feet per gallon at 3 - 5 wet mils per coat. Allow for loss in mixing and application.

**Storage & Shelf Life** Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with your Sherwin-Williams representative.

## SAFETY

**Safety** Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

**Ventilation** Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

## TYPICAL PHYSICAL PROPERTIES

PROPERTY	SUBSTRATE	VALUE
Dry pull-off adhesion ASTM D4541	Blasted steel 1 coat	>2,500 psi (17 MPa)
Dry pull-off adhesion ASTM D4541	Concrete	>500 psi (3.4 MPa), concrete failure

## SERVICE TEMPERATURE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	176°F (80°C)
Dry, non-continuous	203°F (90°C)

Temperature limitations will vary with chemical exposure. Consult with your Sherwin-Williams representative for guidance.

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