

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Waterborne epoxy primer
<b>Description</b>	Carboseal 580 is a two component, waterborne epoxy primer used as a primer/sealer for concrete substrates. It promotes the adhesion of a variety of topcoats including polyurethane/polyurea elastomers. It can be used on dry or damp concrete. It is particularly effective sealing prime damp concrete substrates prior to the application of topcoats that might otherwise be compromised by any surface moisture.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Has excellent adhesion to concrete</li> <li>• Can be used over dry or damp concrete</li> <li>• Provides improved bond to damp concrete</li> <li>• Low VOC</li> <li>• Low odor</li> <li>• Fast dry to topcoat</li> </ul>
<b>Color</b>	Standard: Clear * (0000) Special Order: Grey (0700)  NOTE: The clear version will have a milky appearance when applied but turns clear when water evaporates.
<b>Wet Film Thickness</b>	2.5 - 3.3 mils (63-83μ)
<b>Dry Film Thickness</b>	1.5 - 2 mils (38 - 51 microns) per coat
<b>Solids Content</b>	By Volume 55% +/- 2%
<b>Theoretical Coverage Rate</b>	882 ft <sup>2</sup> /gal at 1.0 mils (21.7 m <sup>2</sup> /l at 25 microns) 588 ft <sup>2</sup> /gal at 1.5 mils (14.4 m <sup>2</sup> /l at 38 microns) 441 ft <sup>2</sup> /gal at 2.0 mils (10.8 m <sup>2</sup> /l at 50 microns) Allow for loss in mixing and application.
<b>VOC Value(s)</b>	Per EPA Method 24: 0.05 lbs/gal (5 g/L)  Calculated minus water and exempt solvents
<b>Topcoats</b>	As recommended by Carboline

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	Surfaces must be cleaned. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
<b>Concrete</b>	Concrete shall be designed, placed, cured, and prepared per NACE No. 6/SSPC-SP 13, latest edition. Abrade to remove all laitance, loose concrete, etc. and to create surface profile in accordance with ICRI CSP 2-5.  Contact Carboline for advice if there are impurities, such as oils, excess moisture, etc., in the concrete. Check the relative humidity of floors at ground level. Follow our instructions for connections to grid drains, cesspools, pipes and pipe inlets.

### MIXING & THINNING

**Mixing** | Carboseal 580 is normally unpigmented or clear in color, when cured. It is not necessary to mix the individual components of the clear, unpigmented version. Just pour the Part A in to Part B and mix for 2 minutes.  
If pigmented (0700), then follow these instructions:  
Thoroughly power mix the pigmented Carboseal 580 Part B for 3 minutes and then add the Carboseal 580 Part A continuing to power mix for an additional 2 minutes.

**Ratio** | 2:1 by volume

**Working Time** | 2 hours at 75 °F (24 °C)

### APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

**General** | The standard clear (0000) applies as a translucent white film. It will turn clear in about two hour dry time signaling topcoat readiness. Allow to dry until signs of cloudiness or haziness are gone.

**Brush & Roller (General)** | Use a synthetic bristle brush. Multiple coats may be required to achieve desired dry film thickness. Use a 3/8" to 1/2" (1-1.3 cm) woven nap roller. Multiple coats may be required to obtain desired appearance, hiding and recommended dry film thickness.

### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	40°F (4°C)	40°F (4°C)	0%
Maximum	95°F (35°C)	120°F (49°C)	120°F (49°C)	90%

While this product is tolerant of damp concrete substrates it should be protected from excessive moisture until cured to a firm state.

### CURING SCHEDULE

Surface Temp.	Dry to Recoat or Topcoat	Maximum Recoat Time
40°F (4°C)	3 Hours	36 Hours
75°F (24°C)	2 Hours	24 Hours
90°F (32°C)	1 Hour	18 Hours

Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times. Maximum recoat time as listed above. After this period, the surface must be abraded to ensure adhesion. Alternatively, a second coat may be applied to "freshen" the surface within the recoat window listed in the chart.

### CLEANUP & SAFETY

**Cleanup** | Use clean water for clean-up. Use Thinner 2 for more difficult to clean tools. In case of spillage, absorb and dispose in accordance with local applicable regulations.

**Safety** | Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.

## PACKAGING, HANDLING & STORAGE

<b>Packaging</b>	<p><b>3 Gallon Kit</b> Carboseal 580 Part A - 2 x 1 gal (7.6 kg) cans Carboseal 580 Part B - 1 gal (3.8 kg) can</p> <p><b>15 Gallon Kit</b> Carboseal 580 Part A - 2 x 5 gal (18.9 kg) cans Carboseal 580 Part B - 5 gal (18.9 kg) can</p>
<b>Shelf Life</b>	<p>12 months at 75 °F (24 °C)</p> <p>Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.</p>
<b>Storage Temperature &amp; Humidity</b>	<p>60-90 °F (16-32 °C) <b>Do not freeze.</b></p>
<b>Storage</b>	<p>Store Indoors.</p>
<b>Shipping Weight (Approximate)</b>	<p>3 Gallon Kit - Approx. 29 lbs (13.2 kg) 15 Gallon Kit - Approx. 145 lbs (65.8 kg)</p>
<b>Flash Point (Setaflash)</b>	<p>Part A: &gt;230 °F (110 °C) Part B: &gt;200 °F (93 °C)</p>

## WARRANTY

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