

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Epoxy Mastic
<b>Description</b>	Aluminium-pigmented, low-stress, high solids mastic with a proven field history. Carbomastic 15 was the pioneer mastic coating in a number of industrial markets and today still provides unmatched levels of barrier protection and corrosion resistance over existing finishes and rusted or ISO 8501 St2 or St3 cleaned steel.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent performance over minimal surface preparation of steel substrates</li> <li>• Suitable as a topcoat for most lightly adhered existing coatings</li> <li>• Excellent choice for field touch-up of zinc rich primers and galvanized steel</li> <li>• Unique formulation with aluminium flakes provides exceptional barrier protection</li> <li>• Suitable for use under insulation on hot surfaces operating up to 150°C</li> <li>• VOC compliant to current AIM regulations</li> </ul>
<b>Color</b>	Aluminium Colour variations within a batch and from batch to batch may occur due to the metallic pigments and variations in application techniques and conditions. Neither product is colour matched, nor will they match each other.
<b>Primer</b>	Self-priming. May be applied over most tightly adhering coatings as well as inorganic zinc primers.
<b>Dry Film Thickness</b>	75 to 125 microns over existing coatings 175 to 250 microns in one or two coats in severe exposures <b>Do not exceed 250 microns in a single coat</b>
<b>Solid(s) Content</b>	By volume 90% ± 2%
<b>Theoretical Coverage Rates</b>	<ul style="list-style-type: none"> <li>• 12.0m<sup>2</sup>/litre at 75 microns</li> <li>• 7.2m<sup>2</sup>/litre at 125 microns</li> <li>• 3.6m<sup>2</sup>/litre at 250 microns</li> <li>• Allow for loss in mixing and application</li> </ul>
<b>HAPs Values</b>	As supplied: 0,084kg/solid litre
<b>Severe Exposures</b>	Temperature resistance under insulation: up to 150°C Discolouration is observed above 82°C but does not affect performance.
<b>VOC Value(s)</b>	Thinner # 10: 25% - 242g/litre As Supplied: 88g/litre These are nominal values.
<b>Topcoats</b>	May be coated with Acrylics, Epoxies, Alkyds or Polyurethanes depending on exposure and need.

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
<b>Steel</b>	<b>Immersion:</b> ISO 8501 Sa2½ with 50 to 75 micron surface profile <b>Non-Immersion:</b> ISO 8501 Sa2 with 50 to 75 micron surface profile for maximum protection ISO 8501 St2 or Sa1 are also acceptable methods.

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### SUBSTRATES & SURFACE PREPARATION

**Galvanized Steel** | For optimum performance, sweep blast cleaning is recommended. Consult your StonCor Africa Sales Representative for specific recommendation.

**Previously Painted Surfaces** | Lightly sand or abrade to roughen and degloss the surface. Existing paint must attain a minimum 3A rating in accordance with ASTM D3359 "X-Scribe" adhesion test.

### PERFORMANCE DATA

Test Method	System	Results
Flexibility (ASTM D522)	Blasted Steel 1 coat CM15	A) Conical - crack 9.65mm, actual elongation 48.57% B) Cylindrical - no cracking observed
Impact Resistance (ASTM G14)	A) Blast Steel 1 coat CM15 B) Rusted Steel 1 coat CM15	Area damaged A) 6.35mm B) 6.35mm to 14.27mm
Salt Spray (ASTM B117)	Rusted Steel 1 coat CM15	No blistering, rusting or softening. No rust creep from scribe
Taber Abrasion (ASTM 4060)	1 coat CM15	130mg loss; 1000 cycles using CS 17 wheel and 1000gm load
Water Fog (ASTM D1735)	Rusted Steel 1 coat CM15	No blistering or softening. No creep from scribe

Test reports and additional data available upon written request.

### MIXING & THINNING

**Mixing** | Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.

**Thinning** | May be thinned up to 25% with Thinner # 10 for normal conditions. Use of thinners other than those supplied by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

**Ratio** | 1:1 Ratio (A to B)

**Pot Life** | 4 Hours at 25°C – Thinned 25%  
2 Hours at 32°C – Thinned 25%  
2 Hours at 25°C – Unthinned  
1 Hour at 32°C – Unthinned

### 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.

**Conventional Spray** | Pressure pot equipped with dual regulators, 10mm I.D. minimum material hose, 1.8mm I.D. fluid tip and appropriate air cap.

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<b>Airless Spray</b>	<p><b>Pump Ratio:</b> 45:1  <b>GPM Output:</b> 3.0 (min)  <b>Material Hose:</b> 10mm I.D. (min)  <b>Tip Size:</b> .019-.025"  <b>Output PSI:</b> 1900-2100  <b>Filter Size:</b> 60 Mesh            * Teflon packings are recommended and available from the pump manufacturer.</p>
<b>Plural Component</b>	<p>May be applied by plural component spray equipment. Contact StonCor Africa Technical Service for specific recommendations.</p>
<b>Brush &amp; Roller (General)</b>	<p>Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or rerolling. Use clean natural bristle brush or medium nap phenolic core roller. Work coating into all irregularities.</p>

## APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	10°C (50°F)	10°C (50°F)	0%
Maximum	32°C (90°F)	54°C (129°F)	38°C (100°F)	95%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

## CURING SCHEDULE

Surface Temp.	Dry to Recoat & Topcoat w/ other finishes	Final Cure Immersion
10°C (50°F)	5 Days	15 Days
16°C (61°F)	3 Days	10 Days
24°C (75°F)	24 Hours	5 Days
32°C (90°F)	18 Hours	3 Days

**For Carbomastic 15 Dry to Touch is 5 hours at 25°C. Maximum recoat / topcoat times are 30 days for epoxies and 90 days for polyurethanes at 25°C.**

These times are based on a 125 to 175 micron dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing before recoating. If the maximum recoat time is exceeded, the surface must be abraded by sweep blasting prior to the application of additional coats. Note: This product contains conductive pigments and cannot be holiday tested.

**Curing Details | Relative Humidity: 50%**

## CLEANUP & SAFETY

<b>Cleanup</b>	<p>Use Thinner # 2. In case of spillage, absorb and dispose of in accordance with local applicable regulations.</p>
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### CLEANUP & SAFETY

**Safety** | Read and follow all caution statements on this product data sheet and on the material safety data sheet for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

**Ventilation** | When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.

### PACKAGING, HANDLING & STORAGE

**Shelf Life** | Part A & B: Minimum 36 months at 25°C  
\* Shelf life when kept at recommended storage conditions and in original unopened containers.

**Shipping Weight (Approximate)** | **10 Litre Kit**  
Part A: 6.63kg  
Part B: 8.29kg

**Storage Temperature & Humidity** | 7-43°C  
0-90% Relative Humidity

**Flash Point (Pensky Martens Closed Cup)** | Part A: > 93°C  
Part B: 24°C

**Storage** | Store indoors. This product is solvent-based and not affected by excursions below these published storage temperatures, down to -12°C, for a duration of no more than 14 days. Always inspect the product prior to use to make sure it is smooth and homogeneous when properly mixed.

### WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.