

PRODUCT DATA SHEET

### SELECTION & SPECIFICATION DATA

**Generic Type** | Two-components aliphatic polyurethane.

Description

High build, glossy finish that has outstanding weathering resistance and colour retention. Suitable for application over a number of Carboline primers and intermediates, this material provides excellent corrosion resistance in a broad range of colours.

- · Outstanding performance properties in both mild and aggressive environments
- · High build; suitable for many two-coat systems

**Features** 

- Suitable for application direct to inorganic zincs
- · Application by spray, brush or roller
- Indefinite recoatability

**Color** Most RAL colours and others upon request. Certain colours may require multiple coats to hide.

Finish | Gloss

**Primer** Refer to Substrates & Surface Preparation

Wet Film Thickness | 75 - 150 μm per coat, normally 110 μm.

50 - 100 microns (1.97 - 3.94 mils) per coat

**Dry Film Thickness** 

Normally 75 µm.

**Solid(s) Content** | By volume:  $67 \pm 2\%$ 

**Theoretical Coverage** 

8,9 m<sup>2</sup>/l at 75 microns.

Rates | Allow for loss in mixing and application

Continuous: 110°C (230°F)

Dry Temp. Resistance

Non-Continuous: 130°C (266°F)

Discoloration and loss of gloss may occur above 110°C.

**Limitations** | Not recommended for immersion service.

**Topcoats** 

Normally none. May be topcoated with most generic types of paints like vinyls, acrylics, epoxies and polyurethanes.

**Density** | 1.22 g/cm³ depending on color

### SUBSTRATES & SURFACE PREPARATION

General Surface 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.

Steel Prime with specific Carboline primers as recommended by your Carboline sales representative. Refer to the specific primer's Product Data Sheet for substrate preparation requirements.

**Galvanized Steel** Prime with specific Carboline primers as recommended by your Carboline sales representative. Refer to the specific primer's Product Data Sheet for substrate preparation requirements.

**Aluminum** SSPC-SP1 ("Solvent Cleaning") and prime with appropriate Carboline primer as recommended by your Carboline sales representative.

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### SUBSTRATES & SURFACE PREPARATION

Previously Painted Surfaces Lightly sand or abrade to roughen and degloss the surface. Excisting paint must attain a minimum 3B rating in accordance with ASTM D3359 "X-Scribe" adhesion test. Prime with specific primers as recommended by your Carboline sales representative.

### MIXING & THINNING

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

Thinning

Thin up to 12% with Carboline Thinner #31. Use of thinners other than those supplied by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

**Ratio** | 4 : 1 (A to B)

**Pot Life** | 6 Hours at 20°C and less at higher temperatures.

Ventilation

When used 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.

## 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.

## Spray Application

The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Pump ratio : 30:1 (min.) \* GMP Output : 3.0 (min.) Material Hose : 3/8" I.D. (min.)

**Airless Spray** 

Tip Size : .015-.019" Output PSI : 2100-2300 Filter Size : 60 mesh

\* Teflon packings are recommended and available from the pump manufacturer.

Brush & Roller (General)

Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive rebrushing or re-rolling. For best results, tie-in within 10 minutes at 24°C.

**Brush** Recommended for touch-up only. Use a medium natural bristle brush.

**Roller** | Use a medium-nap synthetic roller cover with phenolic core.



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#### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	5°C (41°F)	0°C (32°F)	0°C (32°F)	0%
Maximum	40°C (104°F)	45°C (113°F)	45°C (113°F)	85%

Industry standards are for substrate temperatures to be 3°C above the dew point. Special application techniques may be required above or below normal application conditions.

### CURING SCHEDULE

Surface Temp.	Final Cure	Minimum Recoat Time	Tack Free
5°C (41°F)	28 Days	36 Hours	12 Hours
10°C (50°F)	14 Days	18 Hours	6 Hours
20°C (68°F)	7 Days	12 Hours	4 Hours
30°C (86°F)	4 Days	8 Hours	2 Hours

These times are based on 50 - 100 microns 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.

### **CLEANUP & SAFETY**

Cleanup

Use Carboline Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety

Read and follow all caution statements on this product data sheet and on the MSDS 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.

Caution

This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with applicable regulations. In areas where explosion hazards exist, workmen should be required to use nonferrous tools and wear conductive and non-sparking shoes.

### PACKAGING, HANDLING & STORAGE

Part A: 36 months at 24°C **Shelf Life** 

Part B: 24 months at 24°C

Storage Temperature &

5° - 45°C

Humidity

0 – 95% relative humidity

**Storage** | Stores indoors.

Packaging

Part A: 16 litres Part B: 4 litres

<sup>\*</sup> By adding Carbothane Accelerator (100 ml pr 20 ltr kit) the product can be applied down to ÷ 7°C.

<sup>\*</sup> Maximum recoat times are indefinite. Surface must be clean and dry. As part of good painting practice it is recommended to test for adhesion by wiping the surface with Thinner #25. If the surface shows a slight "tack" the surface is suitable for recoating without extensive surface preparation such as abrading.

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#### 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.