

# Selection & Specification Data

**Generic Type** Aliphatic acrylic polyurethane

Description

An attractive, high gloss, tile-like topcoat, producing a smooth, slick and hard film which is easily cleaned. Very good resistance to splash and spillage of acids, alkalies and most solvents. It exhibits excellent resistance to splash and spillage of salts and water. It is easily applied by airless or conventional spray.

RECOMMENDED USES: As a finish coat for exteriors of tank, equipment, piping, structural steel and concrete surfaces where chemical resistance, toughness and weatherability are required. It is an excellent coating for use in chemical processing, pulp and petrochemical, offshore drilling and similar demanding industries. It also finds many applications in areas of heavy marine, institutional and waste treatment where a highly resistant and attractive coating is desired.

NOT RECOMMENDED FOR: Immersion

services

**Features** 

- Excellent gloss and color retention
- **Excellent weatherability**
- Excellent abrasion resistance
- **Excellent flexibility**

Color Refer to Carboline Color Guide, call for

availability and suitability.

**Finish** High gloss

**Primers** Call Tech Service for recommendation

Dry Film 1.5 mils (38 microns)

**Thickness** 

**Solids Content** By Volume:  $50\% \pm 2\%$ 

**Theoretical** 802 mil ft<sup>2</sup> (19.9 m<sup>2</sup>/l at 25 microns)

**Coverage Rate** 534 ft<sup>2</sup> (13.3 m<sup>2</sup>/l at 38 microns) Mixing and application losses must be taken into

consideration when estimating job requirements.

Dry Temp. Continuous: 200°F (93°C) Resistance Non-Continuous: 250°F (121°C) (Non-Immersion)

#### **Substrates & Surface Preparation**

General

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. For all surfaces prime with specific Carboline primers as recommended by your Carboline sales representative. Refer to the specific primer's Product Data Sheet for detailed requirements of the specified primer.

Previously **Painted** Surfaces

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

### Application Equipment

Listed below are general equipment guidelines for the application of this product.

Job site conditions may require modification to these guidelines to achieve the desired results.

**General Guidelines:** 

Sprav Application (General)

Special thinning and application techniques may be required above or below normal conditions. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray

Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, .043" I.D. fluid tip and appropriate air cap. Hold approximately 12-14 inches from surface and at a right angle.

**Airless Spray** Pump Ratio: 30:1 (min.)\*

3.0 (min.) GPM Output: Material Hose: 3/8" I.D. (min.) Tip Size: .013-.015" Output PSI: 2100-2300 Filter Size: 60-100 mesh

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

**Brush & Roller** (General)

Brushing recommended only for touch-up of small areas. Use natural bristle brush applying with full strokes. For roller application, use a short nap mohair roller with phenolic core. Avoid rebrushing and/or rerolling.

Two coats may be required to obtain desired appearance, hiding and recommended dry film thickness.

## Mixing & Thinning

Mixing Power mix each component separately, then combine and power mix in the following

proportions. DO NOT MIX PARTIAL KITS.

1 pint

Ratio (By Volume)

1.0 Gal. Kit 134 Part A 7 pints (in 1 gal can) 5.0 Gal. Kit 4.375 gal

Ure. Conv. 553

(in 5 gal can)

0.62 gallon

**Thinning** 

May be thinned up to 25% by volume with Thinner #25 for normal spray application. For brush and roller applications use Thinner #215 up to 20% by volume.

Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

Pot Life

4 Hours at 75°F (24°C) and less at higher temperatures. Pot life ends when coating becomes too viscous to use. THIS PRODUCT IS MOISTURE SENSITIVE. AVOID MOISTURE CONTAMINATION.

#### Cleanup & Safety

Cleanup

Use Thinner #2

Safety

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

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. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA / NIOSH approved respirator.

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 the National Electric Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and wear conductive and nonsparking shoes.

## **Application Conditions**

Condition	Material	Surface	Ambient	Humidity	
Normal	65°-85°F	65°-85°F	60°-85°F	35-80%	
	(18°-29°C)	(18°-29°C)	(16°-29°C)		
Minimum	40°F	40°F	40°F	00/	
	(4°C)	(4°C)	(4°C)	0%	
Maximum	110°F	130°F	120°F	85%	
	(43°C)	(54°C)	(49°C)	00%	

Do not apply when the surface temperature is less than 5 F (2 C) above the dewpoint.

Special thinning and application techniques may be required above or below normal conditions.

#### Curina Schedule

Surface Temp. & 50% Relative Humidity	Dry to Handle	Final Cure
40°F (2°C)	10 Hours	14 Days
60°F (10°C)	6 Hours	10 Days
75°F (24°C)	3 Hours	7 Days
90°F (32°C)	1/2 Hour	5 Days

These times are based on a 1.5 mil (38 micron) dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times.

# Packaging, Handling & Storage

Shipping Weight	<u>1 Gallon Kit</u>	5 Gallon Kit
(Approximate)	12 lbs (5 kg)	57 lbs (26 kg)
	<u>1s</u>	<u>5s</u>
Thinner 25	9 lbs (4 kg)	42 lbs (18 kg)
Thinner 215	8 lbs (4 kg)	40 lbs (18 kg)

**Flash Point** Carbothane 134 Part A: 63°F (17°C) (Setaflash) Urethane Converter 553: 91°F (33°C) 87°F (31°C) Thinner 25: Thinner 215: 128°F (54°C)

Storage (General) Store Indoors.

Storage Temperature 40° -110°F (4°-43°C) & Humidity 0-80% Relative Humidity

Shelf Life Part A: Min. 24 months at 75°F (24°C) Part B: Min. 24 months at 75°F (24°C)

\*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.



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