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1-26-15

**Project: Ocean Gateway Pier 2 - Mooring Platform Catwalks & Stairs**

**Owner: City of Portland**

**GC: Prock Marine Co.**

**NIF WO 14210**

## **Coatings Schedule**

### **Catwalks & Misc Metals**

- **Non Walking Surfaces**
  - Surface Prep: SP-10 Near White Blast
  - 1<sup>st</sup> Coat - Zinc Metalizing 10.0 – 12.0 MDFT.
  - 2<sup>nd</sup> Coat - Seal Coat Carboline Carbothane 130, 2.0 – 3.0 MDFT Clear.
  
- **Walking Surface**
  - Hot-Dip Galvanized Steel Grating. Galvanized to ASTM A123.
  
- **Any field welded areas will be masked back a minimum of 2” from weld areas or as noted on the shop dwgs.**
- **Seal coat to be applied as per mfg specs. See Attached Data Sheets.**

## Selection & Specification Data

<b>Generic Type</b>	Aliphatic Acrylic Polyurethane
<b>Description</b>	A clear coat finish that provides added UV protection over pigmented Carboline polyurethanes. Exceptionally hard film and excellent depth-of-image provide extended service life to the Carbothane® topcoats, especially when deeptone and metallic colors are used.
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Hard finish with excellent impact and abrasion resistance</li> <li>▪ Excellent resistance to UV degradation</li> <li>▪ High gloss version provides very good depth of image</li> <li>▪ Attractive gloss finish</li> <li>▪ Indefinite recoatability</li> <li>▪ Suitable for airless, conventional spray or roller application</li> <li>▪ VOC compliant to current AIM regulations</li> </ul>
<b>Color</b>	Clear (0910)
<b>Finish</b>	Gloss
<b>Substrate</b>	Apply over other pigmented Carbothane finishes or others as recommended by Carboline.
<b>Dry Film Thickness</b>	1.0-2.0 mils (25-50 microns) per coat
<b>Solids Content</b>	By Volume: (Gloss) 59% ± 2%
<b>Theoretical Coverage Rate For Gloss</b>	946 mil ft <sup>2</sup> (23.2 m <sup>2</sup> /l at 25 microns) Allow for loss in mixing and application
<b>VOC Values Gloss</b>	As supplied: 2.8 lbs/gal (340 g/l) Thinned: 6 oz/gal w/ #214: 3.0 lbs/gal (361 g/l) 6 oz/gal w/ #242E 2.8 lbs/gal (340 g/l) These are nominal values.
<b>Dry Temp. Resistance</b>	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C) Discoloration and loss of gloss is observed above 200°F (93°C).

## Substrates & Surface Preparation

<b>General</b>	Apply over Carbothane topcoats that are clean and dry, and within the recoat time allotment. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
<b>Previously Painted Surfaces</b>	Consult Carboline Technical Services for information.

# Carbothane® 130 Clear Coat

## Application Equipment

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 Guidelines:

**Spray Application (General)** This is a high solids coating and may require adjustments in spray techniques. 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.

**Airless Spray** The following equipment has been found suitable: Pump Ratio: 30:1 (min); GPM Output: 3 gal/min Output psi:2100-2400; Material Hose: 3/8" I.D. (min) Tip Size: .011-.013" (Fine Finish); Filter: 100 mesh Teflon packings are recommended.

**Brush** Recommended for touch-up only. Use a medium, natural bristle brush and avoid excessive rebrushing.

**Roller** Use a 1/2"-nap mohair roller cover with phenolic core and avoid excessive rerolling.

## Mixing & Thinning

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

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

**Thinning** Thin up to 6 oz/gal (5%) with Thinner 214. The use of Thinner 242E (6 oz/gal or 5%) is recommended in VOC regulated areas. 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** 2-3 Hours at 75°F (24°C) and less at higher temperatures. Pot life ends when coating becomes too viscous to use. MOISTURE CONTAMINATION WILL SHORTEN POT LIFE AND CAUSE GELLATION.

## Cleanup & Safety

**Cleanup** Use 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.

**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 supplied air 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, workmen should be required to use non-ferrous

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tools and wear conductive and non-sparking shoes.

## Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	60°-85°F (16°-29°C)	60°-85°F (16°-29°C)	60°-85°F (16°-29°C)	40-60%
Minimum	50°F (10°C)	35°F (2°C)	35°F (2°C)	10%
Maximum	100°F (38°C)	120°F (49°C)	95°F (35°C)	80%

Industry standards are for substrate temperatures to be above the dew point. **Caution:** This Product is moisture sensitive in the liquid stage and until fully cured. Protect from high humidity, dew and direct moisture contact until fully cured. Application and/or curing in humidities above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or microbubbling of the product.

## Curing Schedule

Surface Temp. & 50% Relative Humidity	Dry to Handle	Dry to Recoat*	Final Cure
35°F (2°C)	36 Hours	36 Hours	14 Days
50°F (10°C)	16 Hours	16 Hours	10 Days
75°F (24°C)	8 Hours	8 Hours	7 Days
90°F (32°C)	4 Hours	4 Hours	5 Days

These times are based on a 1.0-2.0 mil (25-50 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.

\*\*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 214 or 25. If the film shows a slight "tack" the surface is suitable for recoating without extensive surface preparation such as abrading.

## Packaging, Handling & Storage

**Shipping Weight - (Approximate)**

<u>1.0 Gallon Kit</u>	<u>5.0 Gallon Kit</u>
9 lbs (4 kg)	45 lbs (21 kg)

**Flash Point (Setaflash)** Part A: 43°F (6°C)  
Part B: 106°F (41°C)

**Storage (General)** Store Indoors.

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

**Shelf Life:** Part A: Min. 36 months at 75°F (24°C)  
Part B (Converter 811): 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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