

Selection & Specification Data

Generic Type: Aliphatic Acrylic Polyurethane.

Description CARBOLINE 134 a glossy, tile-like, attractive topcoat produces a smooth, slick and hard film which is readily cleaned. CARBOLINE 134 has very good resistance to splash and spillage of acids, alkalis, and solvents. It exhibits excellent resistance to splash and spillage of salts and water. It is easily applied by airless or conventional spray.

Features Excellent gloss and color retention
Excellent weather ability
Excellent abrasion resistance
Excellent flexibility

Recommended as a finish coat for exteriors of tanks, equipment, piping, structural steel and concrete surfaces where chemical resistance, toughness and weather ability are required. CARBOLINE 134 is an excellent coating for use in chemical processing, pulp and paper, petrochemical, offshore drilling and similar demanding industries. CARBOLINE 134 also finds many applications in areas of heavy marine, institutional and waste treatment where a highly resistant and attractive coating is desired.

Color Available in a variety of colors. Contact your local Carboline Sales Representative or Carboline Customer Service Department for availability. Check color suitability before use.

Gloss High gloss

Primers Normally applied over coatings such as RUSTBOND 8 HB, CARBOLINE 190 HB, CARBOLINE 893 Primer, and well-cured CARBOMASTIC® 15. Also can be applied over Capox A HB 8000 Series or Capox A 8051 primer and over Galvanox® type V, provided an intermediate coat of Capox A is used.

Dry Film Thickness 1.5 mils (35 microns)
NOTE: Some colors of CARBOLINE 134 may require two coats to hide when applied over dark surface.

Solids Content CARBOLINE 134 (White) By Volume
56% ± 2%

Theoretical Coverage Rate 22 sq. m/l at 25 microns
14.4 sq. m/l at 38 microns)
NOTE: Material and application losses will vary and must be taken into consideration when estimating job requirements

VOC Values The following are nominal values :
As Supplied: 3.99 lbs/gal (408 g/l)

Dry Temp. Resistance Continuous: 200°F
Non-continuous: 250°F
SUBSTRATES: Can be used over properly primed metals and cementitious surface.

Limitations: NOT RECOMMENDED FOR: Immersion service

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 defined in Market Guides or as recommended by your Carboline sales representative. Refer to the specific primer's Product Data Sheet for detailed requirements of the specified primer.

Steel Apply over clean, dry recommended primers, and/or tie coats.

Concrete Apply over clean, dry recommended primers, surfaces and/or tie coats.

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

Conventional Spray Use a 3/8" minimum I.D. material hose, 0.043" I.D. fluid tip and appropriate air cap. Hold approximately 12-14 inches from surface and at a right angle to the surface

December 2009 replaces December 2008

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 or injuries resulting from use. Liability, if any, is limited to replacement of products. 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. Carboline® and Carboguard® are registered trademarks of Carboline Company.

Carbothane® 134

Airless Spray Pump Ratio: 30:1 (win.)
GPM Output 3.0 (min.)
Material Hose 3/8" I.D. (min.)
Tip Size: 0.013-0.015"
Output psi: 2100-2300
Filter Size: 60-100 mesh
*Teflon packing are recommended and are available from the pump manufacturers.

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 re-brushing and/or re-rolling.

Mixing & Thinning

Mixing Mix separately, then combine and mix in the following proportions: Do not mix partial kits.

Ratio Part A : Part B = 7 : 1 by volume

Thinning Thin up to 25% by volume with THINNER #25 for normal spray or brush application. For hot and/or windy conditions use THINNER #82.

NOTE: Substitute thinners may contain alcohols which will inhibit the cure of CARBOLINE 134. Use of thinners other than those supplied or approved by Carboline may adversely affect product performance and void product warranty, whether express or implied

Pot Life Four hours at 75°F (24°C) and less at higher temperatures. Pot life ends when the material becomes too viscous to use. MOISTURE CONTAMINATION WILL SHORTEN POT LIFE AND CAUSE GELLATION.

Cleanup & Safety

Cleanup Use CARBOLINE Thinner # 2

Safety Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation and wear gloves or use protective cream on face and hands if hypersensitive. Keep container closed when not in use.

Ventilation When used in enclosed area, 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 solvent 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, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes

Application Conditions

	Material	Surfaces	Ambient	Humidity
Normal	65-85°F (18-29°C)	65-85°F (18-29°C)	60-85°F (16-29°C)	35-80%
Minimum	40°F (4°C)	40°F (5°C)	40°F (4°C)	0%
Maximum	110°F(43°C)	130°F(54°C)	120°F(49°C)	85%

Curing Schedule

These times based on recommended dry film thickness of 1.5 mils (38 microns). Higher film thicknesses will lengthen cure times.

Surface Final Temperature	Dry To Handle	Cure
40°F (4°C)	10hrs.	2 weeks
60°F(16°C)	6hrs.	10 days
75°F (24°C)	3 hrs.	1 week
90°F(32°C)	1-1/2 hr.	5 days

RAIN RESISTANCE: Requires a minimum cure of three hours at 75°F (24°C) and longer at lower temperatures. Surface moisture before this time will decrease the gloss. CLEAN UP: Use Thinner #2.

Packaging, Handling & Storage

Shipping Weight (Approximate) 5 Liters set
5.75 Kgs

Flash Point (Sataflash) Part A: 63°F (17°C)
Part B: 91°F (33°C)

Shelf Life (When stored indoor at 32°C)).
Part A: 12 months minimum.
Part B: 12 months minimum

NOTE: Polyurethane materials are moisture sensitive. Keep tightly covered before uses. Moisture contamination will cause poor cure of the coating or gellation of Part B.
*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.



December 2009 replaces December 2008

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 or injuries resulting from use. Liability, if any, is limited to replacement of products. 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. Carboline® and Carboguard® are registered trademarks of Carboline Company.