

Selection Data

GENERIC TYPE : Modified, medium oil alkyd

GENERAL PROPERTIES : STAROX 5101 Finish is a high gloss moderately fast drying enamel. It has excellent weathering properties, combining high initial gloss with very good gloss retention. Can be applied over most alkyd primers. Has excellent flexibility and weathering resistance and good abrasion resistance.

RECOMMENDED USES : STAROX 5101 Finish is designed for use in any light industrial or light marine service where chemical attack is not a factor and a glossy surface is desired. Specific recommendations include: atmospheric protection of plan equipment, drilling rigs, farm equipment, road building machinery, pipe racks, exposed structural steel, color coding in safety zones, tank exteriors and steel buildings.

NOT RECOMMENDED FOR : Immersion service or splash and spillage of acids, alkalis or solvents.

RESISTANCE GUIDE : (With recommended topcoat)

| <u>Exposure</u> | <u>Splash & Spillage</u> | <u>Fumes</u> |
|-----------------|------------------------------|--------------|
| Acids | NR | Poor |
| Alkalis | NR | Poor |
| Solvents | NR | Poor |
| Salt(Brines) | Good | Good |
| Water | Excellent | Excellent |

TEMPERATURE RESISTANCE : (Non-Immersion)

Continuous : 200°F(93°C)
Non-Continuous : 250°F(121°C)

FLEXIBILITY : Excellent

WEATHERING : Excellent

ABRASION RESISTANCE : Good

SUBSTRATES : Apply over suitably primed metallic or cementitious surfaces, unprimed wood, old, tightly adhered alkyds or others as recommended.

TOPCOAT REQUIRED : Normally none; an optional second coat will enhance service life.

COMPATIBILITY WITH OTHER COATINGS : May be applied over most alkyd primers. Specific recommendations include Carboline AD and STAROX 2101 primer. Other coatings are recommended.

Specification Data

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL :

By Volume

Starox 5101 Finish 43% ± 2%

RECOMMENDED DRY FILM THICKNESS PER COAT :

1~1.5 mils (25~40µm).

THEORETICAL COVERAGE PER MIXED GALLON* :

10.8 sq. m/l at 40µm

***NOTE** : Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.

SHELF LIFE : 12 months minimum

COLORS : Available in a variety of colors. Consult your local Carboline Sales Representative or Customer Service for availability.

GLOSS : High

Ordering Information

Prices may be obtained from Carboline Sales Representative or Main Office.

SHIPPING WEIGHT :

| | <u>1's</u> | <u>5's</u> |
|-----------------------|----------------|-----------------|
| STAROX 5101 FINISH | 10 lbs.(4.5kg) | 50 lbs.(22.7kg) |
| Carboline Thinner #45 | 9 lbs.(4.1kg) | 45 lbs.(20.4kg) |
| Carboline Thinner #85 | 9 lbs.(4.1kg) | 45 lbs.(20.4kg) |

FLASH POINT : (Pensky-Martens Closed Cup)

| | |
|-----------------------|-------------|
| STAROX 5101 FINISH | 50°F(38°C) |
| Carboline Thinner #45 | 105°F(41°C) |
| Carboline Thinner #85 | 40°F(4°C) |

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To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact Carboline 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. Prices and cost data if shown, are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE SELLER EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

Starox[®] 5101

SURFACE PREPARATIONS : Remove any oil or grease from surface to be coated with clean rags soaked in Carboline Thinner #2 or toluol in accordance with SSPC SP-1-82.

Metallic Surfaces : Apply over clean and dry recommended primer and/or tie coat.

Cementitious Surfaces : Apply over clean and dry recommended alkali resistant tie coat/surfacer.

Wood : Apply directly to unprimed wood. First coat may be thinned up to 30% by volume for better penetration. Second coat will be required for uniform appearance

Aged Alkyds : Remove loose paint, dirt and oil or grease. Surface must be clean and dry prior to coating. Chalked paint must be removed.

Mixing : Power mix to a uniform consistency before thinning.

Spray : Thin up to 10% by volume with Carboline Thinner #85.

Brush or Roller : Thin up to 10% by volume with Carboline thinner #45

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

APPLICATION TEMPERATURES :

| | <u>Material</u> | <u>Surfaces</u> |
|---------|------------------|------------------|
| Normal | 50-90°F(10-32°C) | 55-90°F(13-32°C) |
| Minimum | 35°F(2°C) | 35°F(2°C) |
| Maximum | 120°F(49°C) | 120°F(49°C) |

| | <u>Ambient</u> | <u>Humidity</u> |
|---------|-------------------|-----------------|
| Normal | 55-100°F(13-38°C) | 30-80% |
| Minimum | 35°F(2°C) | 0% |
| Maximum | 120°F(49°C) | 95% |

Do not apply when the surface temperature is less than 5°F(3°C) above the dew point.

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

SPRAY : Use sufficient air volume for correct operation of equipment.

Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later.

NOTE : The following equipment has been found suitable, however, equivalent equipment may be substituted.

| <u>Mfr. & Gun</u> | <u>Fluid Tip</u> | <u>Air Cap</u> |
|------------------------|------------------|----------------|
| Binks #18 or #62 | 63B | 63PB |
| DeVilbiss P-MBC or JGA | FX | 704 |

Approx..043" I.D.

Conventional : Use a 3/8" minimum I.D. material hose. Hold gun approximately 12-14 inches from the surface and at a right angle to the surface.

| <u>Mfr. & Gun</u> | <u>Pump*</u> |
|-----------------------|--------------------------------|
| DeVilbiss JGA-510 | QFA-514 or QFA-519 |
| Graco 205-591 | president 30:1 or Bulldog 30:1 |
| Binks Model 700 | Mercury B8-36 37: |

Airless : Use 3/8" minimum I.D. material hose. Hold gun approximately 18-20 inches from the surface and at a right angle to the surface.

*Teflon packings are recommended and are available from pump manufacturer. Use a 0.013-0.079" tip with 2000 psi.

BRUSH OR ROLLER : Use medium bristle brush or shor nap roller.

| <u>Temperature</u> | <u>Between Coats</u> | <u>Final Cure</u> |
|--------------------|----------------------|-------------------|
| 40°F(4°C) | 15 Hours | 72 Hours |
| 50°F(10°C) | 12 Hours | 48 Hours |
| 60°F(16°C) | 10 Hours | 36 Hours |
| 75°F(24°C) | 6 Hours | 24 Hours |
| 90°F(32°C) | 4 Hours | 20 Hours |

DRYING TIMES : at 1.6 mils (40μ) dry film thickness at 50% relative humidity.

STORAGE CONDITIONS : (Store Indoors)

Temperature : 35°F-110°F(2-43°C)
Humidity : 0-100%

CLEAN UP : Use Carboline Thinner#2 or xylol.

CAUTION: CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST. WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.

