

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, alkalies or solvents.

RESISTANCE GUIDE : (With recommended topcoat)

<u>Exposure</u>	<u>Splash & Spillage</u>	<u>Fumes</u>
Acids	NR	Poor
Alkalies	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 :
1.6 mils (40μ).

THEORETICAL COVERAGE PER MIXED GALLON* :
10.8 sq. m/l at 40μ

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

SHELF LIFE : 24 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(10°C)
Carboline Thinner # 45	105°F(41°C)
Carboline Thinner # 85	40°F(4°C)

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 15% 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)	165°F(74°C)

	<u>Ambient</u>	<u>Humidity</u>
Normal	55-100°F(13-38°C)	30-95%
Minimum	35°F(2°C)	0%
Maximum	120°F(49°C)	98%

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.

