



General Industrial Coatings

CC-B41

SHER-NAR® 5000

Superior Performance Architectural Baking Enamel

Black 1.....H67BC97	B/S Green.....H67GC94	Brown.....H67NC60	White.....H67WC103
Black IR.....H67BC96	G/S Blue.....H67LC63	Y/S Red Oxide.....H67RC91	G/S Yellow.....H67YC72
Y/S Green.....H67GC93	R/S Blue.....H67LC64	B/S Red Oxide.....H67RC92	R/S Yellow.....H67YC73

Exotic***	Bright Red.....H67RC97	Bright Yellow.....H67YC75	Monastral.....H67RC102
Sparkle	Silver Mica.....H67SC7	Sparkle Russet.....H67RC104	Sparkle Gold.....H67YC79
Sparkle III***	Sparkle III.....H67SC11	Sparkle III LX.....H67SC12	Custom Blend.....H67SX Series

DESCRIPTION

SHER-NAR® 5000 is a thermosetting baking enamel based on KYNAR® 500 fluorosurfactant free PVDF resin. This coating is designed to meet AAMA 2605 specifications. It offers the optimum performance for windows, doors, storefront and other exterior end uses demanding the very best in weather resistance

Advantages:

- Contains 70% fluorosurfactant-free KYNAR® 500 PVDF resin
- Extraordinary color retention
- Excellent adhesion to aluminum
- Utilizes Infrared Reflective Pigments for reduced surface temperature and long term color retention
- Versatile application. May be applied by conventional, airless, air-assisted airless, bells and disc spray methods
- Intermix system is available for installation at customer's facility

Systems Available

SHER-NAR® topcoat - 2 coat system with solid earth tone color topcoat

SHER-NAR® Sparkle topcoat - 2 coat system with mica color topcoat

SHER-NAR® Sparkle III* topcoat** - 3 coat system with metallic color coat and clear topcoat

SHER-NAR® Exotic* topcoat** - 3 coat system with exotic color coat and clear topcoat

***Intermixes formulated with these pigments must be clear coated with H67TC26 See CC-B42 for application details

*VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations.

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at www.paintdocs.com.

CHARACTERISTICS

Gloss: 20-35 units (60°)

Weight per Gallon (lbs/gal): 9.18 - 10.18 ± 0.20 lbs varies by color

Volume Solids: 25.2 - 28.5 ± 2% varies by color

Weight Solids: 37.3 - 44.7 ± 2% varies by color

Viscosity: As packaged 65-75 KU
As applied 28-32 sec #2 Zahn

Film thickness: As packaged
Mils Wet 1.9-2.8
Mils Dry 0.8-1.0
Reduced 20% with Xylene
Mils Wet 2.2 - 3.4
Mils Dry 0.8 - 1.0

Spreading Rate (no application loss) 567-673 sq. ft./gal @ 1.0 mils dft varies by color

The **required** primer is applied and flashed prior to coating with SHER-NAR® 5000 topcoat

Primer (required): E71YC22** Series
Application.....spray
Flash.....5 minutes minimum
Dry Film Thickness.....0.2-0.4 mils

**See CC-A37 Sher-Nar® Primer TDS for details

SHER-NAR® 5000 topcoat:
DFT.....0.8- 1.0 mils
System DFT.....1.2 - 1.4 mils

Clear: H67TC6 required with Sparkle III and Exotic formulations. Optional with Earthtone and Sparkle colors.

DFT.....0.8 - 1.0
System DFT.....2.0 - 2.4 mils
See CC-B42 for application details.

System Baking Schedule :

Flash:.....5 minutes
Bake:.....10 minutes at 450°F
metal temperature or equivalent

Flash Point:.....40°F
Pensky-Martens Closed Cup

Package Life:.....24 months, unopened

Air Quality Data:

- May vary by color
- Photochemically reactive
- Volatile Organic Compounds (VOC) theoretical as packaged, maximum less exempt solvents: 5.85 lb/gal, 701 g/L
- VHAPS, as packaged, maximum 4.69 lb/gal
- VHAPS, reduced 20% (vol.) with Xylene, maximum 5.10 lb/gal

SPECIFICATIONS

General: Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, any contamination, and surface passivation treatments to ensure optimum adhesion and coating performance properties. Consult Metal Preparation Brochure CC-T1 for additional details.

Aluminum: Surface must be free of dirt, grease, fingerprints, oils and oxidation products

A minimum of a 5 stage metal cleaning and pre-treatment system of hexavalent chrome, or equivalent, is required for good adhesion and optimum coating performance properties

Testing: The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application

APPLICATION

Typical Setups

May be applied by:

Electrostatic handgun
Electrostatic bell
Electrostatic Disc
Conventional
HVLP

Solvent reduction is necessary to reduce viscosity for spray application

Primer (required): E71YC22**

Electrostatic Disc:

Speed.....15K-25K RPM
Charge.....65-90 KV

Electrostatic Bell:

Speed.....20K-30K RPM
Charge.....65-90 KV

Conventional Spray:

Air Pressure.....40-60 psi
Cap/Tip.....30/0.055FF

HVLP:

Gun.....Devilbiss EXL
Pressure at the cap.....10 psi
Fluid Pressure.....8-10 psi
Cap/Tip.....2000/0.055

Cleanup:

Clean tools/equipment immediately after use with MEK
Flush equipment with solvent to prevent rusting

Follow manufacturer's safety recommendations when using any solvent.

Performance Test Results

DFT Total System.....1.2—1.4 mils
Gloss @ 60°.....20—35 units
Pencil Hardness.....F-H
100 Double MEK Rubs.....Pass

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ADDITIONAL INFORMATION

- All customers/applicators must be certified as an "Approved SHER-NAR® topcoat Applicator"
- The substrate must be properly cleaned and pretreated aluminum
- The pretreatment used by the customer must be approved by the Sherwin Williams laboratory
- This product should only be used over the Sherwin Williams SHER-NAR® Primer series
- This product should be applied within 6 months from date of delivery
- This product should only be reduced with the solvents listed. Some solvents may cause the product to gel
- Equipment should be thoroughly cleaned with the solvents recommended prior to using SHER-NAR® topcoat to avoid contamination or gelling of the product
- This product must be baked as listed. It will not air dry
- Intermixes formulated with Sparkle III or Exotic pigments **must** be clear coated using H67TC26. See CC-B42 for application details
- Intermixes formulated that do not contain Sparkle III or Exotic pigments may also be clear coated using H67TC26 but it is not required. See CC-B42 for application details

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CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION ONLY

Thoroughly review product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product.

To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or www.paintdocs.com.

Please direct any questions or comments to your local Sherwin-Williams facility.

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