Product Finishes

CC-B40

KEM® NISO™ 8510

2K Non-Isocyanate High Gloss Topcoat

High Gloss White Base..... F82W320
High Gloss Clear Base……F82C321
Hardener…….. ..V66VC253

Custom Blend ..... F82NX Series
Reducer R7KC6

DESCRIPTION

KEM NISO™ 8510 is a high gloss, two component, non-isocyanate topcoat. The KEM NISO™ 8510 was developed for use with the 2K NISO ENAMEL PRIMER for air-dry or baked applications

Advantages:

- Non-isocyanate topcoat and primer
- Meets EPA requirements of under 3.5 lb/gal VOC* catalyzed and reduced
- Common hardener with the 2K NISO ENAMEL PRIMER
- Available in a broad range of colors
- Air dry or force dry
- Good weathering performance
- Good chemical resistance
- Good corrosion resistance

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

CHARACTERISTICS

Gloss: 85+ units

Volume Solids: 50-55% catalyzed & reduced

Viscosity: catalyzed & reduced
21-27 seconds #2 Zahn Cup
10-13 seconds #3 Zahn Cup

Recommended film thickness (per coat):
Mils Wet 2.75 - 4.0
Mils Dry 1.5 - 2.0

Spreading Rate (no application loss)
401-441 sq.ft./gal. @ 2 mils DFT

Drying (2.0 mils dft, 77°F, 50% RH):
To Touch: 30-45 minutes
Dry to Handle: 3 hours
Tack Free: 8-10 hours
Force Dry: 30 minutes at 180°F

Good air movement and humidity control are necessary for proper drying of coatings.

Flash Point: 76-111°F PMCC

Mixing Ratio: by volume
3 parts Kem Niso™ 8510
2 parts V66VC253
0.85-1.2 part R7KC6
Pot Life: 60-120 minutes
Package Life: 1 year, unopened

Air Quality Data:
- Photochemically reactive
- Volatile Organic Compounds (VOC) theoretical as packaged, maximum, less exempt solvents: 2.75 lb/gal, 300 g/L
- Volatile Organic Compounds (VOC) catalyzed and reduced, maximum 3.5 lb/gal, 420 g/L

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

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.

Please consult your Sherwin-Williams Product Finishes Representative for system recommendations.

Steel or Iron: Remove rust, mill scale, and oxidation products. For best results, treat the surface with a proprietary surface chemical treatment of zinc or iron phosphate to improve corrosion protection.

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

Reduction: For 3.5 lb/gal VOC maximum, reduce up to 20% with R7KC6.

Conventional Spray:
Air Pressure..... 50-60 psi
Fluid Pressure ..... 8-12 psi
Tip 055-.070
Reducer……..Up to 20% R7KC6

HVLP:
Air Pressure (at cap).....10 psi
Fluid Pressure……6-8 psi max
Cap/Tip..... .055-.070
Reducer……..Up to 20% R7KC6

Cleanup:
Clean tools/equipment immediately after use with reducing solvent, MEK or MIBK

Follow manufacturer's safety recommendations when using any solvent.

ADDITIONAL INFORMATION

- KEM® NISO™ 8510 HIGH must be catalyzed at a 3:2 ratio with V66VC253 by volume.
  DO NOT VARY HARDENER RATIO. The catalyst ratio has been established for optimum hardness, flexibility, gloss and chemical and solvent resistance.
- Protect coatings, hardener, and reducer from moisture as water affects potlife and film properties. Store Indoors Keep containers closed at all times.
- Do not package coated products in airtight plastic bags unless completely cured. Since coatings continue to cure for several weeks, the buildup of organic solvents and reaction byproducts could cause improper cure and adhesion failure in use
- Blend with Phoenix Colorants only
- Do not blend with any other coating quality. No other catalysts, colorants or reducers are recommended because foreign materials such as alcohols, glycols and lacquer thinners affect film performance
- If recoating after more than 7 days cure, sand lightly to ensure intercoat adhesion.

Performance Tests

Substrate: Bonderite® 1000 p-99X steel panels,

Cure: 30 min flash, 30 min. at 180°F, 14 days air cure

Visual Hiding.....<2mils (DFT)

Pencil Hardness .....H

Adhesion .....Excellent

Humidity Resistance:.....5B Adhesion, No Blisters (100°F, 100% RH, 10 days)

Water Immersion: .....5B Adhesion, No Blisters (300hrs. Ambient)

Chemical Resistance
1 hour covered spot test, no recovery
Water.....Excellent
Soapy Water.....Excellent
IPOH.....Good (stained)
Motor Oil..... ...Excellent
Diesel Fuel.....Excellent
Unleaded Gasoline..... ..Excellent
50% Ethanol.....Excellent

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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