



Gloss Black	F75B401
Flat Black	F75B412
Blending Clear	F75V405
Tinting Člear	F75V421
High Hide White	F75W404

Tinting White	F75W420
Silver Metallic	F75S491
Acrylic Modifier	V70V411
Clear Tint Base	F75V405C
Mid-Gloss Clear Tint B	ase F75V423C

CHARACTERISTICS

DESCRIPTION

KEM® 400 Enamel is a general purpose, short oil alkyd, high gloss enamel. It is ideal for interior and exterior application for OEM finishing or refinishing of industrial, construction, and agricultural equipment as well as a wide array of general metal applications.

KEM 400 Acrylic Enamel

For improved exterior color and gloss retention, faster drying, sharper gloss, and improved block resistance in stacking, a 10% addition of Acrylic Modifier, V70V411, may be added to KEM 400 Enamel.

KEM 400 Urethane Enamel

For increased chemical and abrasion resistance, improved hardness, sharper gloss, and better gloss and color retention, KEM 400 Enamel may be catalyzed at an 8:1 ratio with KEM 400 Exterior Catalyst, V66V1020, prior to reduction. Drying times are slightly faster. Addition of catalyst eliminates the critical recoat time. Working potlife is 8 hours maximum, at room temperature. Catalyst contains isocyanates, read label cautions on V66V1020 before use.

KEM 400 Antimicrobial Enamel Blends contain an anti-microbial additive which protects the coating surface from microbial growth. Normal cleaning and surface maintenance practices should always be followed.

Advantages:

- High gloss
- · Good exterior color and gloss retention
- Good one coat protection
- Fast air drying
- · Good flexibility and film toughness
- Available in a broad range of colors
- Ideal for large components because of longer open time and wet-in of overspray
- Ideal system for horse trailers, farm, garden, and construction equipment and industrial machinery and equipment

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

60° Gloss:

Blending Bases85+F75V405C (Clear Tint Base)90+*F75V423C (Mid-Gloss Clear Tint Base)55-65*F75V422C (Satin Clear Tint Base)25-35

*For Mid-Gloss and Satin coatings, they must only be air dried. If force-dried, the ultimate gloss will not meet the above ranges.

Volume Solids: 27-36 ± 2% (varies by color)

Viscosity:	50-60 secs., #2	Zahn Cup
	40-50 secs., #4	Ford Cup
Blending	40-50 secs., #4 Clear (F75V405): Clear (F75V421):	82-90 KÚ
Tinting	Clear (F75V421):	82-90 KU

3.5-5.0

1.0-1.5

Recommended Film Thickness:

Mils Wet	
Mils Dry	

Spreading Rate (no application loss): 290-580 ft.²/gal. at 1.0-1.5 mil DFT

Cure:

Air Dry or *Force Dry: 20 mins. @ 140-160° F *Do not force dry the Mid-Gloss or Satin coatings.

Air Drying:	1 mil at 77° F, 50% RH
To Touch	15-30 minutes
Tack Free	2-3 hours
To Handle	30-60 minutes
To Recoat before 3 hours and after 48 hours	

A critical recoat time may occur between 3 and 48 hours at room temperature. This may fluctuate depending on temperature, film thickness, and drying conditions. Test a small area first.

Flash Point:55-56° F
(Pensky Martens Closed Cup)Package Life:2 years, unopened

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at <u>www.PaintDocs.Com</u>.

KEM[®] 400 Enamel

CC-B26

Satin Clear Tint Base	F75V422C
Flat Clear Tint Base	F75FL400C
KEM 400 Catalyst	V66V1020
Custom Blend Series	F75KX
Custom Tint Series	F75KN
Antimicrobial Blend Series.	F75KM

Air Quality Data (theoretical):

- Photochemically reactive
- Volatile Organic Compounds (VOC)

 as packaged, maximum, less exempts
 5.02 lbs/gal, 601 g/L

reduced 15% with Xylene, R2K4
 5.30 lbs/gal, 635 g/L

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.

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. For improved corrosion protection, priming is recommended. Prime with KEM 400 Primer (E61A400) or KEM-Flash[®] Ultra-Bond[™] Primer (E61A705 series).

Aluminum (untreated): prime with Industrial Wash Primer, P60G2, RoHS Compliant Wash Primer, P60G10, or Kem Agua[®] Wash Primer, E61G522.

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: Reduce with Xylene, R2K4 as needed up to 15%. For more flow and open time, use Aromatic Naphtha 100 Flash or Aromatic Naphtha 150 Flash. Use Toluol for faster flash off and in cooler temperature.

May be applied by:	Conventional Airless Air Assisted Airless HVLP Dip
Conventional Spray: Air Pressure Fluid Pressure Tip	45-55 psi 10-15 psi 0.055-0.070"
Airless Spray: Fluid Pressure Tip	1800-2400 psi 0.011-0.013"
Air Assisted Airless S	Spray:

	epiaj.
Atomizing Air	10-20 psi
Fluid Pressure	1200-1800 psi
Тір	0.011-0.013"

HVLP:

10 psi
8-10 psi
.055-0.070"

Equipment/application guidelines are only guidelines and individual application & process parameters will dictate exact requirements.

Cleanup: Clean tools/equipment immediately after use with Aromatic Naphtha, Acetone, or Xylene, R2K4. For HAPS compliant cleanup, use n-butyl acetate, R6K18.

Follow manufacturer's safety recommendations when using any solvent.

ADDITIONAL INFORMATION

- 1. For improved corrosion resistance, priming is recommended.
- 2. Blocking or sticking may occur when flat surfaces are stacked before adequate cure.
- 3. Over "pre-treated" aluminum, check adhesion before use, as the proprietary pre-treatment may change from supplier to supplier which may have an effect on the final adhesion.
- 4. Apply at temperatures above 60° F.
- 5. Apply at least 1.25 mils dry film thickness on direct to metal applications for good film integrity
- 6. Gloss adjustments can be made using D64F100 or OK412.
- 7. Mid-Gloss and Satin coatings must be air dried, not force dried. If force dried, the ultimate gloss will not meet the above ranges.
- 8. Custom colors are available by blending bases with Opticolor[®] Express, Phoenix[®], Color Express[®] or GIS colorants. Maximum colorant tint loads are shown in the table below:

	F75V405	F75V421	F75W404
Opticolor Express	32 oz/gal	-	28 oz/gal
Phoenix	32 oz/gal	16 oz/gal	8 oz/gal
Color Express	24 oz/gal	-	-
GIS	32 oz/gal	-	8 oz/gal

Performance Tests*

Substrate: 1.5 mils DFT on CRS Q-Panel. Cure: 30 days, Air Dry

Direct Impact Pass 10 pounds Pencil Hardness (ASTM D3363) 4B *Performance test results may vary depending on dry film thickness, substrate tested and post-cure duration

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 <u>www.PaintDocs.Com</u>.

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

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