

Product Finishes

PermaSwade[®] 9401 Silk

PRODUCT DESCRIPTION

PermaSwade[®] 9401 Silk is a two component urethane technology designed to give a silk feel to various plastics.

Advantages

- Apply using conventional or HVLP spray methods.
- Free of lead and chromate hazards
- Adheres directly to ABS, PC/ABS, B1000
- Excellent mar resistance.
- RoHS Compliant
- Maximum 4 ounces of Phoenix[®] Black can be used to make colors.
- Can be used as a topcoat over metallic or pigmented Kem Aqua[®] 600, Polane[®] G Plus, Polane[®] T and Acrylic Lacquer EP[®] without any loss of performance

CHARACTERISTICS

Volatile Organic Compounds(VOC)* as packaged, less exempts.

4.58 lb/gal, 549 g/L Catalyzed and Reduced : 4.83 lb/gal, 578 g/L

Gloss at 60°: 5 maximum

Volume Solids: 37.2 ± 1% Weight Solids: 45.3 ± 1% Viscosity: at 25°C (77°F) Package 24-30 sec #2 Zahn Ready to Spray 16-20 sec #2 Zahn

Recommended Film Thickness:

Wet: Dry: 4.0 – 6.7 mils 1.5 – 2.5 mils

Spreading Rate: (catalyzed and reduced)

547 sq.ft./gal. @ 1.0 mil DFT

Flash Point: Package Life:

40°F Pensky-Martens Closed Cup 6 months unopened V66V55 12 months, Unopened

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

CHARACTERISTICS (Cont.)

Mixing Ratio: (by volume)	
5 parts	F63TC9
1 part	V66V55
2 parts Reducer	R7KC386

Pot Life : 1 Hour

Drying: (1.0 mils, 77°F, 50% R/H) To Touch 1 Hour To Handle 3-4 Hours To Pack Overnight Force Dry: Flash off time 5 minutes

e 5 minutes 30 minutes at 140-180°F

Do not exceed the heat distortion temperature of the substrate.

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.

Plastics: Due to the diverse nature of plastic substrates, a coating or coating system must be tested for acceptable adhesion to the substrate prior to use in production. Reground and recycled plastics along with various fire retardants, flowing agents, mold release agents, and foaming/blowing agents will affect coating adhesion. A filler or primer/barrier coat may be required. Please consult your Sherwin-Williams Product Finishes Sales Representative for system recommendations.

Metal: Consult Metal Preparation Brochure CC-T1 for additional details.

SILK.....F63TC9 CATALYST.....V66V55 CUSTOM BLEND......F63ZS

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: Conventional Spray HVLP

Conventional Spray:

Air Pressure	45-55 psi
Fluid Pressure	10-15 psi
Тір	0.055-0.070

HVLP:

Air Pressure at the cap	. 10 psi max
Fluid Pressure	6-10 psi
Тір	0.055-0.070

Cleanup:

Clean tools/equipment immediately after use with R7KC386 reducer, MEK, or MIBK, or n-butyl acetate.

SPECIFICATIONS

Product Limitations:

- Short pot life. Plural component equipment recommended
- Protect from moisture. Water affects pot life and product properties. Store indoors
- At least 1.5 mils is needed to obtain sufficient "feel"
- Heat shortens pot life. Do not spray hot
- Do not pump catalyzed material into circulating systems. Friction heat developed by pumps and circulation will shorten pot life
- Do not blend with any polyurethane quality. No other catalysts, colorants or reducers are recommended because foreign materials such as alcohols and glycols destroy performance properties. Do not use lacquer thinners or alcohol containing solvents.
- Phoenix[®] Black is the only pigment allowed. Do not exceed 4 ounces per gallon.

PERFORMANCE TESTING

Adhesion to substrate: Excellent ABS PC-ABS Excellent Excellent CRS B1000 P99X Excellent Linear Abrasion - CS-17 10 cycles, 1000 gram No visible scratch 50 cycles, 1000 gram Moderate scratch 100 cycles, 1000 gram Moderate scratches 50 Double MEK Rubs Pass 50 Double IPA Rubs Pass **Chemical Resistance** (72 hr uncovered spot test over ABS) **Dish Soap** Excellent Mustard Stain Fantastik Excellent

Cola Excellent IPA Excellent Extra Virgin Olive Oil Excellent Vaseline[®] Hand Lotion Excellent Rouge Good Lip Polish Excellent Hair Gel Excellent Cucina[®] Hand Cream Excellent Perspirant Excellent Ketchup Excellent Mayonaise Excellent Formula 409® Good Windex® Excellent Acetone Good Lipids Good Purell[®] Hand Sanitizer Excellent

Chemical Resistance (cont) (72 hr uncovered spot test over ABS)

Coffee LED/LCD Cleaner Clorox[®] Wipe Banana Boat[®] Oleaic Acid Good Good Excellent Fail Fail

Chemical Resistance (1 hour covered spot test over ABS) Lipstck Excellent Coffee Excellent Mustard Stain Water Ink Excellent Wax Pencil Excellent Red Wine Stain Cola Excellent Coppertone® Failure Nivea[®] Hand Lotion Excellent Formula 409[®] Excellent Ammonia (10%) Excellent

Environmental Testing

Thermal Cycling: High and low test extremes High 66°C, 75% RH(72hrs) Low 25°C, 50% RH

No Effect

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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.

CAUTIONS (Cont.)

Catalyst CONTAINS ISOCYANATES. People who have chronic (long-term) lung or breathing problems or have had a reaction to isocyanates, must not be in the area where this product is being applied. Where overspray is present, a positive pressure airsupplied respirator should be worn. If unavailable, a properly fitted organic vapor/particulate respirator may be effective. Consult catalyst MSDS and product label for complete handling instructions.

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