PSX® 805

DESCRIPTION

Satin Engineered Siloxane

PRINCIPAL CHARACTERISTICS

- Virtually HAPs free, low VOC
- High durability in challenging environments
- Tough and abrasion resistant
- Resists dirt pickup, easily cleaned
- Can be applied directly to zinc primers as a 2-coat system

COLOR AND GLOSS LEVEL

- Standard and custom colors
- Satin

BASIC DATA AT 68°F (20°C)

Data for product	
Number of components	Two
Volume solids	80 ± 3%
VOC (Supplied)	max. 75.0 g/l (approx. 0.6 lb/US gal)
Recommended dry film thickness	3.0 - 6.0 mils (75 - 152 µm) depending on system
Theoretical spreading rate	256 ft^2/US gal for 5.0 mils (6.3 m^2/l for 125 µm)
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry

Notes:

- * The mixed and applied coating cure reaction will produce VOC of mixed alcohols. For 100 g/L VOC requirements, a VOC-exempt thinner such as 97-739 may be used as needed.
- When applying more than one coat, it is recommended that the total dry film thickness not exceed 10 mils (250 µm)
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation

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Steel
- Abrasive Blast to SSPC SP-6 or higher with a 1.0-3.0 mil surface profile
- Keep moisture, oil, grease and other organic matter off surface before coating
- Apply this product as soon as possible to avoid rusting of blasted surfaces
- For touch up and repair, power tool cleaning in accordance with SSPC SP-11 is acceptable
- Use a suitable primer for corrosive environments

Concrete
- See specific primer

Aged coatings
- Contact your PPG representative. A test patch of the product over intact clean coating and observation for film defects and adhesion over a period of time may be required, dependent upon the type of coating.
- This product is compatible over Amercoat 450 Series polyurethane.

Atmospheric exposure conditions
- Ambient temperature should be between 32 °F and 120 °F.
- Material temperature should be between 50 °F (10 °C) and 90 °F (32 °C)
- Relative humidity should be above 40%

Substrate temperature
- Surface temperature during application should be between 32°F (0°C) and 120°F (49°C)
- Surface temperature during application should be at least 5°F (3°C) above dew point

SYSTEM SPECIFICATION

- Primers: DIMETCOTE 9-series, DIMETCOTE 21-5, DIMETCOTE 302H, AMERCOAT 68HS, AMERLOCK 2/400, AMERCOAT 370, AMERCOAT 385, AMERCOAT 240, AMERCOAT 235

INSTRUCTIONS FOR USE

Mixing ratio of base to hardener 7 :: 1
- Only mix full kits. Pre-mix base component with a pneumatic air mixing at moderate speeds to homogenize the container. Pour in the hardener component and power agitate until thoroughly mixed

Pot life
3 hours at 70°F (21°C)

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Application

- Area should be sheltered from airborne particulates and pollutants
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns

Air spray

- Separate air and fluid regulators are essential
- Ensure there is a moisture and oil trap in the main air line
- An agitated pressure pot is recommended

Recommended thinner
THINNER 60-12 (AMERCOAT 911), THINNER 21-06 (AMERCOAT 65) (xylene)), THINNER 21-25 (AMERCOAT 101) (recommended for > 90°F (32°C))

Volume of thinner
0 - 10%

Nozzle orifice
Approx. 0.070 in (1.8 mm)

Airless spray

- 30:1 pump or larger

Recommended thinner
THINNER 60-12 (AMERCOAT 911), THINNER 21-06 (AMERCOAT 65) (xylene)), THINNER 21-25 (AMERCOAT 101) (recommended for > 90°F (32°C))

Nozzle orifice
0.015 – 0.017 in (approx. 0.38 – 0.43 mm)

Brush/roller

- Brush and roll application may result in uneven film build – which may lead to uneven film and gloss development or appearance
- Use a high quality natural bristle brush and/or solvent resistant, 1/4" or 3/8" nap roller. Ensure brush/roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build
- AMERCOAT 851 flow control additive can be used to for enhanced flow and leveling with brush and roll application
- Be aware that multiple coats may be required to achieve uniform and sufficient film thickness to provide proper hiding performance when applying by brush or roller

Recommended thinner
THINNER 60-12 (AMERCOAT 911), THINNER 21-06 (AMERCOAT 65 (xylene)), or 97-739 (where exempt thinner is required for VOC regulations)

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Cleaning solvent
AMERCOAT 12 Cleaner or AMERCOAT 911 thinner

ADDITIONAL DATA

Overcoating interval for DFT up to 100 µm (4.0 mils)				
Overcoating with...	**Interval**	**50°F (10°C)**	**70°F (21°C)**	**90°F (32°C)**
itself	Minimum	9 hours	4.5 hours	3 hours
	Maximum	Unlimited	Unlimited	Unlimited

Note: Surface must be power washed to remove contaminants. Surface must be clean and dry. When re-coating within 72 hours, solvent wipe the surface with any of the PSX 805 thinners prior to application of the second coat.

Curing time using standard hardener for up to 4 mils dft and 50% relative humidity		
Substrate temperature	**Dry to touch**	**Dry to handle**
40°F (4°C)	14 hours	36 hours
50°F (10°C)	8 hours	13 hours
70°F (21°C)	2 hours	8 hours
90°F (32°C)	1.5 hours	4 hours

Pot life (at application viscosity)	
Mixed product temperature	**Pot life**
50°F (10°C)	6.5 hours
70°F (21°C)	3 hours
90°F (32°C)	1.5 hours

Product Qualifications
- SSPC Paint 36 Level 3 Performance

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

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REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

WARRANTY

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Packaging: Available in 1-gallon and 5-gallon kits