## DESCRIPTION

Two-component, engineered siloxane coating

## **PRINCIPAL CHARACTERISTICS**

- Unique, high gloss, isocyanate free solution
- Can be applied directly over inorganic zinc
- Excellent color and gloss retention
- Resistant to graffiti removal solvents
- High solids, VOC compliant
- Applied by brush, roller or spray, without thinning
- Good resistance to splash and spillage of chemicals
- Can be applied as a single coat, direct-to-metal for moderately corrosive environments (ISO 12944 C1-C3)

## **COLOR AND GLOSS LEVEL**

- Full color range
- High gloss

# BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Тwo
Mass density	1.4 kg/l (11.7 lb/US gal)
Volume solids	90 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 119.0 g/kg max. 164.0 g/l (approx. 1.4 lb/US gal) EPA Method 24: 0.7 lb/US gal (83.9 g/l)
Temperature resistance (Continuous)	To 120°C (250°F)
Temperature resistance (Intermittent)	To 120°C (250°F)
Recommended dry film thickness	75 - 175 μm (3.0 - 7.0 mils) per coat
Theoretical spreading rate	7.2 m²/l for 125 μm (289 ft²/US gal for 5.0 mils)
Dry to touch	2 hours
Overcoating Interval	Minimum: 3 hours Maximum: Unlimited
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 24 months when stored cool and dry

Notes:



- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time
- When applying more than one coat, it is recommended that the total DFT should not exceed 250 µm (10.0 mils)
- Color will drift at elevated temperatures

# **RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES**

Coating performance is proportional to the degree of surface preparation

# Substrate conditions

- Steel; pretreated minimum ISO-Sa2 (SSPC SP-6) or higher with blasting profile 25 75 μm (1.0 3.0 mils)
- For touch up and repair, power tool cleaning in accordance with SSPC-SP 11 is acceptable
- Galvanized steel; sweep blasted to roughen the surface to remove any zinc salts which might be present, SSPC SP-16 with blasting profile 40 – 75 µm (1.5 – 3.0 mils)
- Stainless steel and non-ferrous metal; degreased and sweep blast, SSPC-SP 16 with blasting profile 40 100 μm (1.5 – 4.0 mils)
- Concrete / Masonry; see specific primer
- Compatible previous coat must be dry and free from any contamination
- When applied to zinc silicate primer, a mist coat and full coat technique is required. 15% thinning is recommended for mist coat
- Aged suitable coating must be dry and free from any contamination, it may require abrading prior to applying this
  product
- Prepare damaged areas to original surface preparation specifications, feathering edges of intact coating

# Substrate temperature

- Substrate temperature during application and curing should be above 0°C (32°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application and curing should be between 40% and 85%

# Note:

- FD hardener should be used when ambient temperature is below 5°C (40°F)

# **INSTRUCTIONS FOR USE**

# Mixing ratio by volume: base to hardener 4:1

• Use a power mixer powered by an air or explosion-proof electric motor





# Pot life

4 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA - Pot life

## Air spray

## **Recommended thinner**

THINNER 60-12 (AMERCOAT 911) or THINNER 21-06 (AMERCOAT 65) for global, THINNER 21-25 (AMERCOAT 101) is recommended for above 90°F (32°C) in US only

## **Volume of thinner**

5 - 10%, depending on required thickness and application conditions

## **Nozzle orifice**

1.5 - 2.0 mm (approx. 0.060 - 0.079 in)

## **Nozzle pressure**

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

## Airless spray

#### **Recommended thinner**

THINNER 60-12 (AMERCOAT 911) or THINNER 21-06 (AMERCOAT 65) for global, THINNER 21-25 (AMERCOAT 101) is recommended for above 90°F (32°C) in US only

#### **Volume of thinner**

0 - 5%, depending on required thickness and application conditions

#### **Nozzle orifice**

Approx. 0.38 - 0.48 mm (0.015 - 0.019 in)

# **Nozzle pressure**

20.0 MPa (approx. 200 bar; 2901 p.s.i.)

## **Brush/roller**

- The recommended DFT cannot be reached in one coat
- Use a high quality natural bristle brush and / or solvent resistant, short nap roller. Ensure brush / roller is well loaded to avoid air entrainment
- Maintain a wet edge



# **Cleaning solvent**

• THINNER 90-53 or THINNER 90-58 (AMERCOAT 12)

# **ADDITIONAL DATA**

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
75 µm (3.0 mils)	12.0 m²/l (481 ft²/US gal)	
125 µm (5.0 mils)	7.2 m²/l (289 ft²/US gal)	
175 μm (7.0 mils)	5.1 m²/l (206 ft²/US gal)	

Overcoating interval for DFT up to 175 $\mu$ m (7.0 mils) at RH 40% or above						
Overcoating with	Interval	0°C (32°F)	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself (when PSX 700	Minimum	N/A	20 hours	9 hours	4.5 hours	3 hours
is used)	Maximum	N/A	Unlimited	Unlimited	Unlimited	Unlimited
itself (when PSX	Minimum	20 hours	12 hours	7 hours	3 hours	2 hours
700FD is used)	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Notes:

- Surface should be dry and free from any contamination
- When re-coat between dry to handle time and 7 days, solvent wipe surface with any of PSX 700 thinners prior to application of the second coat of PSX 700
- Hardener manufactured in Europe is fast drying version only with "PSX 700 FDE Hardener" name

Curing time with standard hardener for DFT up to 175 $\mu m$ (7.0 mils) at RH 40% or above		
Substrate temperature	Dry to touch	Dry to handle
5°C (41°F)	9 hours	24 hours
10°C (50°F)	6 hours	11 hours
20°C (68°F)	3 hours	6 hours
30°C (86°F)	1.5 hours	4 hours



Curing time with FD (fast drying) hardener for DFT up to 175 $\mu m$ (7.0 mils) at RH 40% or above		
Substrate temperature	Dry to touch	Dry to handle
0°C (32°F)	9 hours	24 hours
5°C (41°F)	7 hours	16 hours
10°C (50°F)	4.5 hours	8.5 hours
20°C (68°F)	2 hours	4.5 hours
30°C (86°F)	1 hours	3 hours

Notes:

- Adequate ventilation must be maintained during application and curing
- Hardener manufactured in Europe is fast drying version only with "PSX 700 FDE Hardener" name

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
10°C (50°F)	6.5 hours	
20°C (68°F)	4 hours	
30°C (86°F)	1.5 hours	

Note:

- Same pot life between normal and FD hardener

# **Product Qualifications**

- SSPC Paint 36 Level 3 Performance
- NFPA Class A Flame Spread
- Qualified for ISO 12944 C5 with several systems
- Qualified for NORSOK M501 Rev.6 System 1 with several systems
- Meets requirements of ANSI N5.12 and ASTM D5144 for Coating Service Level II

# SAFETY PRECAUTIONS

- See Safety Data Sheet and product label for complete safety and precaution requirements
- 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 & 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.

#### REFERENCES

Information sheet | Explanation of product data sheets

#### WARRANTY

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