## **DESCRIPTION**

Two-component, high solids polymeric urethane

## PRINCIPAL CHARACTERISTICS

- Excellent resistance to atmospheric exposure conditions
- · Outstanding color and gloss retention
- Cures down to -5°C (23°F)
- · Tough and abrasion resistant
- Resistant to splash of mineral and vegetable oils, paraffins, aliphatic petroleum products and mild chemicals
- Can be recoated even after long atmospheric exposure

## **COLOR AND GLOSS LEVEL**

- · Standard and custom colors
- High gloss

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.3 kg/l (10.8 lb/US gal)
Volume solids	68 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 226.0 g/kg UK PG 6/23(92) Appendix 3: max. 289.0 g/l (approx. 2.4 lb/US gal)
Recommended dry film thickness	75 μm (3.0 mils)
Theoretical spreading rate	9.1 m²/l for 75 µm (364 ft²/US gal for 3.0 mils)
Dry to touch	2 hours
Overcoating Interval	Minimum: 12 hours Maximum: Unlimited
Full cure after	7 days
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

Ref. 7529 Page 1/5



#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

#### **Substrate conditions**

- · Previous coat (epoxy or polyurethane) must be dry and free from any contamination
- Surface of previous coat should be sufficiently roughened if necessary

## Substrate temperature and application conditions

- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application and curing should not exceed 85%

#### **INSTRUCTIONS FOR USE**

## Mixing ratio by volume: base to hardener 5:1

- The temperature of the mixed base and hardener should preferably be above 15°C (59°F), otherwise extra thinner
  may be required to obtain application viscosity
- · Thinner should be added after mixing the components
- · Adding too much thinner results in reduced sag resistance

#### Pot life

5 hours at 20°C (68°F)

#### Note:

- See ADDITIONAL DATA - Pot life

## Air spray

### **Recommended thinner**

**THINNER 21-06** 

#### Volume of thinner

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

## **Nozzle orifice**

1.0 - 1.5 mm (approx. 0.040 - 0.060 in)

## **Nozzle pressure**

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

Ref. 7529 Page 2/5



## Airless spray

## **Recommended thinner**

THINNER 21-06

## **Volume of thinner**

3 - 5%, depending on required thickness and application conditions

## **Nozzle orifice**

Approx. 0.38 - 0.43 mm (0.015 - 0.017 in)

## **Nozzle pressure**

18.0 MPa (approx. 180 bar; 2611 p.s.i.)

## **Brush/roller**

## **Recommended thinner**

**THINNER 21-06** 

## **Volume of thinner**

0 - 5%

## **Cleaning solvent**

• THINNER 90-53

## **ADDITIONAL DATA**

Spreading rate and film thickness				
DFT	Theoretical spreading rate			
75 μm (3.0 mils)	9.1 m²/l (364 ft²/US gal)			
100 μm (4.0 mils)	6.8 m²/l (273 ft²/US gal)			
125 µm (5.0 mils)	5.4 m <sup>2</sup> /l (218 ft <sup>2</sup> /US gal)			

Ref. 7529 Page 3/5



Overcoating interval for DFT up to 75 µm (3.0 mils)							
Overcoating with	Interval	-5°C (23°F)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	3 hours	48 hours	24 hours	12 hours	8 hours	5 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

#### Note:

- Maximum interval is only unlimited when the surface is free from any contamination

Curing time for DFT up to 75 µm (3.0 mils)					
Substrate temperature	Dry to touch	Full cure			
-5°C (23°F)	8 hours	22 days			
0°C (32°F)	5 hours	18 days			
10°C (50°F)	3 hours	10 days			
20°C (68°F)	2 hours	7 days			
30°C (86°F)	1 hour	4 days			
40°C (104°F)	30 minutes	3 days			

#### Notes:

- Adequate ventilation must be maintained during application and curing
- Should condensation on the surface occur during, or soon after application, this could result in gloss reduction

Pot life (at application viscosity)			
Mixed product temperature	Pot life		
10°C (50°F)	7 hours		
20°C (68°F)	5 hours		
30°C (86°F)	4 hours		
40°C (104°F)	3 hours		

## **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
- · Contains a polyisocyanate curing agent

Ref. 7529 Page 4/5



## **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

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Ref. 7529 Page 5/5