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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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#### 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
- 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 1999/13/EC, 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



#### **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

- 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 83:17

- 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

#### Induction time

None

#### Pot life

5 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

#### <u>Air spray</u>

#### Recommended thinner THINNER 21-06

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.)



#### 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 m²/l (218 ft²/US gal)	

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 days	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 (please refer to INFORMATION SHEETS 1433 and 1434)
- 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

- 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
- Contains a toxic polyisocyanate curing agent
- · Avoid at all times inhalation of aerosol spray mist

#### 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.



#### 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 -	INFORMATION SHEET	1431
TOXIC HAZARD		
SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650
	CONVERSION TABLES EXPLANATION TO PRODUCT DATA SHEETS SAFETY INDICATIONS SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD SAFE WORKING IN CONFINED SPACES DIRECTIVES FOR VENTILATION PRACTICE CLEANING OF STEEL AND REMOVAL OF RUST RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	EXPLANATION TO PRODUCT DATA SHEETSINFORMATION SHEETSAFETY INDICATIONSINFORMATION SHEETSAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD -INFORMATION SHEETTOXIC HAZARDINFORMATION SHEETSAFE WORKING IN CONFINED SPACESINFORMATION SHEETDIRECTIVES FOR VENTILATION PRACTICEINFORMATION SHEETCLEANING OF STEEL AND REMOVAL OF RUSTINFORMATION SHEET

#### WARRANTY

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