

# SIGMAGUARD™ 730

## DESCRIPTION

Two-component, high solids polyamine cured phenolic epoxy coating

## PRINCIPAL CHARACTERISTICS

- Tank coating with good chemical resistance against a wide range of chemicals
- Meets the requirements of EI 1541 2.2 (coating systems for aviation fuel storage tanks and pipes)
- Short curing periods
- Good low-temperature curing
- Easy to clean

## COLOR AND GLOSS LEVEL

- Offwhite, cream
- Gloss

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.4 kg/l (11.7 lb/US gal)
Volume solids	78 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 169.0 g/kg max. 242.0 g/l (approx. 2.0 lb/US gal)
Recommended dry film thickness	150 µm (6.0 mils)
Theoretical spreading rate	5.2 m <sup>2</sup> /l for 150 µm (209 ft <sup>2</sup> /US gal for 6.0 mils)
Dry to touch	3 hours
Overcoating Interval	Minimum: 8 hours Maximum: 28 days
Full cure after	See curing table
Shelf life	Base: at least 12 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

- Steel; blast cleaned to a minimum of ISO-Sa2½, blasting profile 40 – 70 µm (1.6 – 2.8 mils)
- Previous coat of approved coating must be dry and free from any contamination



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## **Substrate temperature and application conditions**

- Substrate temperature during application and curing should be above 5°C (41°F)
- Substrate temperature during application should be at least 3°C (5°F) above dew point

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## **INSTRUCTIONS FOR USE**

### **Mixing ratio by volume: base to hardener 75:25 (3:1)**

- 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
- Adding too much thinner results in reduced sag resistance and slower cure
- Thinner should be added after mixing the components

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### **Induction time**

Allow induction time before use

<b>Mixed product induction time</b>	
<b>Mixed product temperature</b>	<b>Induction time</b>
15°C (59°F)	15 minutes
20°C (68°F)	10 minutes
25°C (77°F)	5 minutes

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### **Pot life**

1.5 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

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### **Air spray**

#### **Recommended thinner**

THINNER 91-92

#### **Volume of thinner**

5 - 15% for a one coat application of 150 µm (6.0 mils) DFT

#### **Nozzle orifice**

1.8 – 2.0 mm (approx. 0.070 – 0.079 in)

#### **Nozzle pressure**

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

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## Airless spray

### Recommended thinner

THINNER 91-92

### Volume of thinner

0 - 10% for a one coat application of 150 µm (6.0 mils) DFT

### Nozzle orifice

Approx. 0.53 – 0.69 mm (0.021 – 0.027 in)

### Nozzle pressure

15.0 MPa (approx. 150 bar; 2176 p.s.i.)

## Brush/roller

- For stripe coating and spot repair only

## Cleaning solvent

THINNER 90-53

## ADDITIONAL DATA

### Spreading rate and film thickness

DFT	Theoretical spreading rate
125 µm (5.0 mils)	6.2 m <sup>2</sup> /l (250 ft <sup>2</sup> /US gal)
150 µm (6.0 mils)	5.2 m <sup>2</sup> /l (209 ft <sup>2</sup> /US gal)

Note: Maximum DFT when brushing: 100 µm (4.0 mils)

### Overcoating interval for DFT up to 150 µm (6.0 mils)

Overcoating with...	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	32 hours	24 hours	8 hours	4 hours	3 hours
	Maximum	28 days	28 days	28 days	14 days	7 days

Note: Surface should be dry and free from any contamination

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Curing time for DFT up to 150 µm (6.0 mils)		
Substrate temperature	Minimum curing time before transport of aliphatic petroleum products and ballast water and tanktest with seawater	Minimum curing time before transport of cargoes without note 4, 7, 8 or 11
5°C (41°F)	10 days	17 days
10°C (50°F)	7 days	14 days
20°C (68°F)	3 days	5 days
30°C (86°F)	60 hours	4 days
40°C (104°F)	36 hours	3 days

#### Notes:

- Minimum curing time before transport of cargoes with note 4,7,8 or 11: 3 months
- For detailed information on resistance and resistance notes, please refer to the latest issue of the cargo resistance list
- Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

Pot life (at application viscosity)	
Mixed product temperature	Pot life
15°C (59°F)	3 hours
20°C (68°F)	1.5 hours
25°C (77°F)	1 hour
30°C (86°F)	30 minutes

## 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
• 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
• SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
• RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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