

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



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## 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

### 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

## INSTRUCTIONS FOR USE

### Mixing ratio by volume: base to hardener 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

### Table of Induction time

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

### Pot life

2.25 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA – Pot life

# PPG SIGMAGUARD™ 730

## **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.)

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## **Brush/roller**

- For stripe coating and spot repair only
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## **Cleaning solvent**

- THINNER 90-53
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# PPG SIGMAGUARD™ 730

## 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

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 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 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

# PPG SIGMAGUARD™ 730

Pot life (at application viscosity)	
Mixed product temperature	Pot life
15°C (59°F)	3 hours
20°C (68°F)	2.25 hours
25°C (77°F)	1.75 hour
30°C (86°F)	1 hour

## 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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