

# PPG SIGMAGUARD™ 730 CONDUCTIVE

## DESCRIPTION

Two-component, high solids polyamine cured conductive phenolic epoxy coating

## PRINCIPAL CHARACTERISTICS

- Conductive phenolic epoxy coating in protective coating systems for the inside protection of steel tanks for liquid fuel
- Good adhesion to steel
- Good water and corrosion resistance
- Good low-temperature curing
- Complies with GB50393

## COLOR AND GLOSS LEVEL

- Redbrown, light gray
- Semi-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>	100 - 150 µm (4.0 - 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
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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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## SYSTEM SPECIFICATION

- 2 layers of 100 to 150 µm (4.0 mils to 6.0 mils)
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## 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
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### Pot life

2.25 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
100 µm (4.0 mils)	7.8 m <sup>2</sup> /l (313 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	Dry to touch	Full cure
5°C (41°F)	12 hours	21 days
10°C (50°F)	6 hours	14 days
20°C (68°F)	3 hours	7 days
30°C (86°F)	1.5 hours	5 days
40°C (104°F)	30 minutes	4 days

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

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

## 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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