

# VIGOR ZN 302 SR

## DESCRIPTION

Two-component, silicate zinc epoxy primer

## PRINCIPAL CHARACTERISTICS

- Good anticorrosive properties
- Fast-curing
- Fast-handling
- Cures at temperatures down to -5°C (23°F)
- Reduced risk of mud cracking
- Topcoats must be unsaponifiable
- Decreased zinc salt generation
- Can be over coated without requiring a tiecoat
- ACQPA 21251-certified

## COLOR AND GLOSS LEVEL

- Bluegreen
- Flat

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
<b>Number of components</b>	Two
<b>Mass density</b>	2.0 kg/l (16.4 lb/US gal)
<b>Volume solids</b>	63 ± 2%
<b>VOC (Supplied)</b>	max. 380.0 g/l (approx. 3.2 lb/US gal)
<b>Recommended dry film thickness</b>	50 - 100 µm (2.0 - 4.0 mils) depending on system
<b>Theoretical spreading rate</b>	12.6 m <sup>2</sup> /l for 50 µm (505 ft <sup>2</sup> /US gal for 2.0 mils)
<b>Dry to touch</b>	10 minutes
<b>Overcoating Interval</b>	Minimum: 25 minutes Maximum: 12 months
<b>Shelf life</b>	Base: at least 24 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 ISO-Sa2½, blasting profile 40 – 70 µm (1.6 – 2.8 mils)
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### Substrate temperature and application conditions

- Substrate temperature during application at -5°C (23°F) is acceptable; provided the substrate is free from ice and dry
  - Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
  - Substrate temperature during application and curing should not exceed 40°C (104°F) to obtain maximum resistance against chemical and mechanical influences
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## INSTRUCTIONS FOR USE

### Mixing ratio by volume: base to hardener 80:20 (4:1)

- 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

10 minutes

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### Pot life

4 hours at 20°C (68°F)

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### Air spray

#### **Recommended thinner**

THINNER 21-06

#### **Volume of thinner**

15 - 20%, depending on required thickness and application conditions

#### **Nozzle orifice**

1.6 mm (approx. 0.063 in)

#### **Nozzle pressure**

0.3 - 0.6 MPa (approx. 3 - 6 bar; 44 - 87 p.s.i.)

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## Airless spray

### Recommended thinner

THINNER 21-06

### Volume of thinner

5 - 15%, depending on required thickness and application conditions

### Nozzle orifice

Approx. 0.38 - 0.53 mm (0.015 - 0.021 in)

### Nozzle pressure

18.0 - 20.0 MPa (approx. 180 - 200 bar; 2611 - 2901 p.s.i.)

## Brush/roller

- Roller application is not recommended
- For small areas only (touch up and repair)

### 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
50 µm (2.0 mils)	12.6 m <sup>2</sup> /l (505 ft <sup>2</sup> /US gal)
100 µm (4.0 mils)	6.3 m <sup>2</sup> /l (253 ft <sup>2</sup> /US gal)

Overcoating interval for DFT up to 50 µm (2.0 mils)						
Overcoating with...	Interval	-5°C (23°F)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
various two-component epoxy coatings	Minimum	1 hour	45 minutes	30 minutes	25 minutes	20 minutes
	Maximum	12 months	12 months	12 months	12 months	12 months

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Overcoating interval for DFT up to 80 µm (3.1 mils)						
Overcoating with...	Interval	-5°C (23°F)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
various two-pack epoxy coatings	Minimum	1.5 hours	1 hour	50 minutes	40 minutes	35 minutes
	Maximum	12 months	12 months	12 months	12 months	12 months

#### Notes:

- Surface should be dry and free from any contamination
- An interval of several months can be allowed under clean interior exposure conditions
- Zinc primers can form zinc salts on the surface; preferably they should not be weathered for long periods before overcoating
- Before overcoating any visible surface contamination must be removed by sandwashing, sweep blasting or mechanical cleaning

Curing time for DFT up to 80 µm (3.1 mils)		
Substrate temperature	Dry to touch	Dry to handle
-5°C (23°F)	1 hour	1.5 hours
0°C (32°F)	40 minutes	1 hour
10°C (50°F)	25 minutes	50 minutes
20°C (68°F)	10 minutes	40 minutes
30°C (86°F)	less than 10 minutes	35 minutes

Note: Adequate ventilation must be maintained during application and curing

## 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.

## 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



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