

VIGOR ZN 302 SR EVO

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 | |
|--------------------------------|--|
| Number of components | Two |
| Mass density | 2.0 kg/l (16.4 lb/US gal) |
| Volume solids | 63 ± 2% |
| VOC (Supplied) | max. 380.0 g/l (approx. 3.2 lb/US gal) |
| Recommended dry film thickness | 50 - 100 µm (2.0 - 4.0 mils) depending on system |
| Theoretical spreading rate | 12.6 m ² /l for 50 µm (505 ft ² /US gal for 2.0 mils) |
| Dry to touch | 10 minutes |
| Overcoating Interval | Minimum: 25 minutes Maximum: 12 months |
| Shelf life | 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)

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

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

Induction time

10 minutes

Pot life

4 hours at 20°C (68°F)

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 ² /l (505 ft ² /US gal) |
| 100 µm (4.0 mils) | 6.3 m ² /l (253 ft ² /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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