

PRODUCT DATA SHEET

December 1, 2022 (Revision of June 19, 2019)

SIGMARINE™ 28

DESCRIPTION

One-component, quick-drying, high-build multipurpose zinc phosphate primer

PRINCIPAL CHARACTERISTICS

- Onboard maintenance primer for above-water areas
- Easy application
- Quick-drying
- Recoatable with various one and two component products
- Surface tolerant
- Good anticorrosive properties

COLOR AND GLOSS LEVEL

- Gray, redbrown, offwhite
- Flat

BASIC DATA AT 20°C (68°F)

Data for product	
Number of components	One
Mass density	1.5 kg/l (12.5 lb/US gal)
Volume solids	55 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 266.0 g/kg max. 392.0 g/l (approx. 3.3 lb/US gal) China GB 38469-2019 (tested) 367.0 g/l (approx. 3.1 lb/gal)
Recommended dry film thickness	75 µm (3.0 mils) per coat
Theoretical spreading rate	7.3 m ² /l for 75 µm (294 ft ² /US gal for 3.0 mils)
Dry to touch	30 minutes
Overcoating Interval	Minimum: 4 hours Maximum: Unlimited
Shelf life	At least 24 months when stored cool and dry

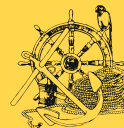
Notes:

- See ADDITIONAL DATA - Overcoating intervals
- See ADDITIONAL DATA - Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 – 70 µm (1.6 – 2.8 mils)
- Steel; power tool cleaned to min. ISO-St2



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Substrate temperature and application conditions

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

SYSTEM SPECIFICATION

- SYSTEMS FOR BOOTTOP AND TOPSIDE – SYSTEM SHEET 3102
- SYSTEMS FOR DECKS – SYSTEM SHEET 3103
- SYSTEMS FOR SUPERSTRUCTURE AND DECK FITTINGS – SYSTEM SHEET 3104
- SYSTEMS FOR INTERIOR(S) – SYSTEM SHEET 3105

INSTRUCTIONS FOR USE

- Stir well before use
- The temperature of the paint 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
- Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

Air spray

Recommended thinner

THINNER 21-06

Volume of thinner

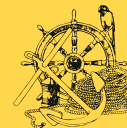
5 - 10%, depending on required thickness and application conditions

Nozzle orifice

1.7 - 2.0 mm (approx. 0.070 - 0.079 in)

Nozzle pressure

0.2 - 0.3 MPa (approx. 2 - 3 bar; 29 - 44 p.s.i.)



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Airless spray

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 5%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.38 – 0.48 mm (0.015 – 0.019 in)

Nozzle pressure

12.0 - 16.0 MPa (approx. 120 - 160 bar; 1741 - 2321 p.s.i.)

Brush/roller

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 3%

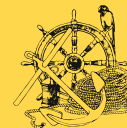
Cleaning solvent

THINNER 21-06

ADDITIONAL DATA

Overcoating interval for DFT up to 75 µm (3.0 mils)				
Overcoating with...	Interval	5°C (41°F)	20°C (68°F)	35°C (95°F)
SIGMARINE 28, SIGMARINE 48, PPG VIKOTE 56 and PPG VIKOTE 46	Minimum	8 hours	4 hours	3 hours
	Maximum	Unlimited	Unlimited	Unlimited
PPG VIKOTE 18	Minimum	12 hours	4 hours	3 hours
	Maximum	Unlimited	Unlimited	Unlimited
SIGMACOVER 456 and SIGMADUR 550	Minimum	16 hours	8 hours	4 hours
	Maximum	Unlimited	Unlimited	Unlimited

Note: Surface should be dry and free from chalking and contamination



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Curing time for DFT up to 75 µm (3.0 mils)	
Substrate temperature	Dry to touch
5°C (41°F)	2 hours
20°C (68°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.

REFERENCES

• 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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