

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

www.newguardcoatings.com

NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

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

COLOR AND GLOSS LEVEL

- Bluegreen, gray
- Flat

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	2.1 kg/l (17.5 lb/US gal)
Volume solids	63 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 204.0 g/kg max. 419.0 g/l (approx. 3.5 lb/US gal)
Recommended dry film thickness	50 - 80 μm (2.0 - 3.1 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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

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

Ref. 7704 Page 1/5



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

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

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.)

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

15.0 MPa (approx. 150 bar; 2176 p.s.i.)

Ref. 7704 Page 2/5



Brush/roller

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 m²/l (505 ft²/US gal)			
80 μm (3.1 mils)	7.9 m²/l (326 ft²/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

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				35 minutes
Coatings	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
- Before overcoating any visible surface contamination must be removed by sandwashing, sweep blasting or mechanical cleaning

Ref. 7704 Page 3/5



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

EXISAI	NVERSION TABLES PLANATION TO PRODUCT DATA SHEETS FETY INDICATIONS	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1410 1411 1430
TO	FETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – XIC HAZARD	INFORMATION SHEET	1431
	FE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
	RECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
• CLI	EANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

Ref. 7704 Page 4/5



LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.



Ref. 7704 Page 5/5