

DIMETCOTE® 302 H

DESCRIPTION

Reinforced inorganic zinc primer

PRINCIPAL CHARACTERISTICS

- Provides outstanding corrosion resistance
- Fast dry times for rapid topcoating
- Low VOC
- Excellent corrosion resistance

COLOR AND GLOSS LEVEL

- Green
- Flat

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Volume solids	78 ± 2%
VOC (Supplied)	max. 2.6 lb/US gal (approx. 312 g/l)
Temperature resistance (Continuous)	To 400°F (204°C)
Recommended dry film thickness	2.0 - 4.0 mils (50 - 100 µm) depending on system
Theoretical spreading rate	417 ft ² /US gal for 3.0 mils (10.4 m ² /l for 75 µm)
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 months when stored cool and dry

Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- Color will drift at elevated temperatures

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Contact your PPG representative for specific recommendations
- Coating performance is proportional to the degree of surface preparation. All previous coats must dry and free of contaminants

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Steel

- Abrasive Blast to SSPC SP-6 or higher with a 1.0-3.0 mil surface profile
 - Higher surface profiles up to 5 mils (125 µm) are acceptable, but the product must be applied in a thickness great enough to achieve a minimum of 2.5 mils (65 µm) dry film thickness
 - Apply this product as soon as possible to avoid rusting of blasted surfaces
 - Keep moisture, oil, grease and other organic matter off surface before coating
 - For touch up and repair, power tool cleaning in accordance with SSPC-SP 11 is acceptable
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Atmospheric exposure conditions

- Ambient temperature during application and curing should be between 20°F (-7°C) and 120°F (49°C)
 - Maximum 85% relative humidity during application and curing
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Substrate temperature and application conditions

- Surface temperature during application should be between 20°F (-7°C) and 130°F (54°C)
 - Surface temperature during application should be at least 5°F (3°C) above dew point
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SYSTEM SPECIFICATION

- Primers: Direct to metal, can be used to touch up inorganic zincs such as DIMETCOTE 9-SERIES
 - Topcoats: AMERCOAT Epoxies, PITGUARD Epoxies
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INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 9:1

- Pre-mix base component with a power mixer for 1-2 minutes until thoroughly homogenized. Add the hardener under agitation and mix for another 1-2 minutes until incorporated. Strain from one container to another through a 30 mesh strainer to remove any undispersed lumps.
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Application

- Area should be sheltered from airborne particulates and pollutants
 - Ensure good ventilation during application and curing
 - Provide shelter to prevent wind from affecting spray patterns
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Material temperature

- Material temperature during application should be between 40°F (4°C) and 90°F (32°C)
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Pot life

8 hours at 70°F (21°C)

Note:

- See ADDITIONAL DATA – Pot life
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Air spray

- Separate air and fluid pressure regulators and a moisture and oil trap in the main air supply line are recommended.
- Use standard conventional equipment

Recommended thinner

THINNER 91-82 (AMERCOAT T-10), THINNER 21-25 (AMERCOAT 101) (recommended for > 90°F (32°C))

Volume of thinner

0 - 10%

Nozzle orifice

Approx. 0.070 in (1.8 mm)

Airless spray

- 45:1 pump or larger

Recommended thinner

THINNER 91-82 (AMERCOAT T-10), THINNER 21-25 (AMERCOAT 101) (recommended for > 90°F (32°C))

Volume of thinner

0 - 5%

Nozzle orifice

0.017 – 0.019 in (approx. 0.43 – 0.48 mm)

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Brush/roller

- Use a high-quality natural-bristle brush. Brush application is only recommended for small touch-up and/or repair areas. Roller application is not recommended
- Ensure the brush/roller is well-loaded to avoid air entrainment. Level air bubbles with a brush. Multiple coats may be necessary to achieve adequate film build

Recommended thinner

AMERCOAT T-10, AMERCOAT 101 (recommended for >90°F (32°C))

Volume of thinner

0 – 5%

ADDITIONAL DATA

Overcoating interval for DFT up to 3.0 mils (75 µm)					
Overcoating with...	Interval	40°F (4°C)	50°F (10°C)	70°F (21°C)	90°F (32°C)
various two-pack solvent-borne epoxy coatings	Minimum	8 hours	4 hours	1.5 hours	45 minutes
	Maximum	3 months	3 months	3 months	3 months

Note:

- Surface must be power washed as needed to remove all surface contaminants including zinc salts. Surface must be clean and dry

Curing time for DFT up to 3.0 mils (75 µm)	
Substrate temperature	Dry hard
40°F (4°C)	36 hours
50°F (10°C)	18 hours
70°F (21°C)	6 hours
90°F (32°C)	3 hours

Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	16 hours
70°F (21°C)	8 hours
90°F (32°C)	4 hours



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Product Qualifications

- Zinc dust meets ASTM D520 type 2 standards

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 & 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

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AVAILABILITY OF PACKAGING

Depending on specific country of application the following versions are available:

Product	Color
DI302H-B	Hardener
DI302H-5A	Base

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