

DIMETCOTE® 9 N

DESCRIPTION

Inorganic Zinc Silicate Primer

PRINCIPAL CHARACTERISTICS

- Provides outstanding corrosion resistance
- Resistant to dry temperature up to 750°F(399°C)
- Recommended for ISO 12944 C5I and C5M conditions
- >80% zinc in dry film
- Tested in accordance with ANSI N101.2, ANSI N5.12, ASTM D5144, ASTM D3911 and the specific requirements of Westinghouse AP 1000

COLOR AND GLOSS LEVEL

- Green
- Flat

BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Volume solids	63 ± 3%
VOC (Supplied)	max. 4.2 lb/US gal (approx. 504 g/l)
Temperature resistance (Continuous)	To 750°F (399°C)
Recommended dry film thickness	2.0 - 6.0 mils (50 - 150 µm) depending on system
Theoretical spreading rate	505 ft ² /US gal for 2.0 mils (16.0 m ² /l for 50 µm)
Shelf life	Liquid: at least 9 months when stored cool and dry Powder: at least 24 months when stored cool and dry

Notes:

- See ADDITIONAL DATA - Overcoating intervals
- See ADDITIONAL DATA - Curing time
- Color will drift at elevated temperatures
- volume solids is based on applied properties and accounts for film porosity
- This product has a dry film density of 291.4 lb/ft³.

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation.



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Steel

- Visible burrs, slivers, scabs and weld spatter shall be mechanically removed prior to blasting.
- Abrasive blast with an angular abrasive to an SSPC SP-10 cleanliness or higher. Achieve a surface profile of 1.0 – 3.0 mils (25 – 75 µm)
- For AP 1000 service, a blast profile of 1.5 - 2.5 mils should be specified.
- 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 for AP 1000 service, it is acceptable to prepare in accordance with SSPC SP-11 or SSPC SP-15 with a surface profile of 1.25 to 2.0 mils.

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
- Ambient temperature during application and curing should be between 0°F (-18°C) and 120°F (49°C)
- Relative humidity during application and curing should be above 50% to obtain optimal curing properties

Note: Work area can be artificially humidified by atomized water spray and/or ponding water under the coated structures. After the film is dry-to-touch, a fine mist may be applied over the coating to expedite curing in low humidity environments

INSTRUCTIONS FOR USE

- Only mix full kits
- Pre-mix base component with a pneumatic air mixer at moderate speeds to homogenize the container. Add powder component slowly under agitation until fully mixed. Strain the mixture from one container to another through a 30 mesh filter/strainer to remove any undispersed lumps.

Pot life

8 hours at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life

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
- A thinned down mist coat should be applied prior to the full thickness topcoat to minimize application bubbling and pinholing. Remove any dry spray by lightly screening the surface prior to topcoating.
- Repair: When dry though, measure the dry film thickness. If film thickness is lower than specified, additional material can be applied up 24 hours from the previous application. Thin the second coat with AMERCOAT 101N thinner. Ensure dry spray is removed.

Material temperature

Material temperature during application should be between 40°F (4°C) and 100°F (38°C)



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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.
- Maintain continuous agitation to keep zinc in suspension
- Limit fluid hose length to 50 feet
- Use standard conventional equipment

Recommended thinner

Amercoat 65 N for applications < 70°F and Amercoat 101 N for applications at 70 °F or greater.

Volume of thinner

0 - 8%

Nozzle orifice

Approx. 0.070 in (1.8 mm)

Airless spray

- 30:1 pump or larger
- A reversible fluid tip recommended
- Use standard airless spray equipment
- Hoses should normally be kept as short as possible
- Maintain continuous agitation to keep zinc in suspension

Recommended thinner

Amercoat 65 N for applications < 70°F and Amercoat 101 N for applications at 70 °F or greater.

Nozzle orifice

0.019 - 0.023 in (approx. 0.48 - 0.58 mm)

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

Recommended thinner

Amercoat 65 N for applications < 70°F and Amercoat 101 N for applications at 70 °F or greater.

Volume of thinner

0 - 5%

Cleaning solvent

AMERCOAT 12 CLEANER or AMERCOAT 65 THINNER (xylene)



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ADDITIONAL DATA

Overcoating interval for DFT up to 3 mils and 50% relative humidity					
Overcoating with...	Interval	40°F (4°C)	50°F (10°C)	70°F (21°C)	90°F (32°C)
recommended topcoats	Minimum	3 days	48 hours	24 hours	16 hours
	Maximum	Extended	Extended	Extended	Extended

Notes:

- To confirm cure to topcoat, conduct a MEK rub test per ASTM D4752. A rating of 4 or higher is sufficient for topcoating
- Maximum interval is only unlimited when the surface is free from any contamination
- When re-coating to build film thickness within 24 hours of the initial application and prior to the film reaching an MEK resistance of 3 or higher per ASTM D4752, use a wire screen to remove any dry spray and apply a thinned down coat using 25-30% AMERCOAT 101 N thinner to achieve the specified film thickness and apply in a wet coat.
- When re-coating to build film thickness after product has reached an MEK resistance of 3 or higher and passes a coin rub test, uniformly abrade the surface taking caution not to polish/burnish the film. This is best done by light abrasive blasting followed by cleaning of any particulate contamination on the surface. Apply a thinned down coat using Amerocat 101 N as described above.

Curing time for DFT up to 3 .0 mils and 50% relative humidity		
Substrate temperature	Dry to touch	Dry to handle
40°F (4°C)	45 minutes	75 minutes
50°F (10°C)	30 minutes	50 minutes
70°F (21°C)	10 minutes	18 minutes
90°F (32°C)	5 minutes	10 minutes

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

Note: Maintain agitation throughout application to prevent settling of the zinc. Protect product from moisture contamination

Product Qualifications

- SSPC Paint 20, Type IC, Level 2
- 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

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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

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Packaging: Available in 1-gallon and 5-gallon kits

Product code	Description
DI9N-A	Liquid
DI9N-P	Zinc Powder

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