

METALHIDE® ONE PAC | 97-676

DESCRIPTION

One-component, inorganic zinc silicate primer

PRINCIPAL CHARACTERISTICS

- Provides outstanding corrosion resistance
- Can be used where most 2-pack inorganic zincs are used
- Single component that can be partly used then resealed for future use
- Excellent for use in coastal, marine, or off-shore environments
- Resistant to dry temperature up to 750°F(399°C)

COLOR AND GLOSS LEVEL

- Gray, green
- Flat

BASIC DATA AT 68°F (20°C)

Data for product	
Number of components	One
Volume solids	52 ± 3%
VOC (Supplied)	EPA Method 24: 3.8 lb/US gal (458.9 g/l)
Recommended dry film thickness	3.0 - 4.0 mils (75 - 100 µm) depending on system
Theoretical spreading rate	278 ft ² /US gal for 3.0 mils (6.9 m ² /l for 75 µm)
Shelf life	At least 15 months when stored cool and dry

Notes:

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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is, in general, proportional to the degree of surface preparation

Steel

- Abrasive blast with an angular abrasive to an SSPC SP-6 cleanliness or higher for optimum performance. Achieve a surface profile of 1.0 - 3.0 mils (25 - 75 µm)
- 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 prevent blasted surface from rusting.
- Keep moisture, oil, grease, or 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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Substrate temperature and application conditions

- Surface temperature during application should be between 20°F (-7°C) and 140°F (60°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 20°F (-7°C) and 120°F (49°C)
- Relative humidity during application should be between 30% and 85%

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

Warning

Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. EXPOSURE TO LEAD DUST OR FUMES MAY CAUSE ADVERSE HEALTH EFFECTS, ESPECIALLY IN CHILDREN OR PREGNANT WOMEN. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted and approved (e.g., NIOSH approved) respirator and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-424-LEAD or the regional Health Canada office

SYSTEM SPECIFICATION

- Primers: Direct to metal
- Topcoats: PITTGUARD epoxies, AMERCOAT epoxies, AMERLOCK Series, SIGMACOVER epoxies

INSTRUCTIONS FOR USE

- Mix with a pneumatic air mixing at moderate speeds to homogenize the container
- Move the impeller up and down to ensure good off-bottom mixing and draw-down from the top surface

Pot life

24 hours at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life



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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
- Mist spray: A mist coat / full coat application technique is required when topcoating to prevent application bubbling. Ensure dry spray is removed from the surface
- 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 97-733 thinner. Ensure any dry spray is removed
- Repair: For aged inorganic zinc coatings, spot blast rusted areas in accordance with the surface preparation instructions before touching up. When blasting is not practical, AQUAPON 97-670, AMERCOAT 68 HS or ☒ DIMETCOTE 302 H may be used for repair

Material temperature

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

Air spray

- Separate air and fluid pressure regulators and a moisture and oil trap in the main air supply line are recommended.
- An agitated pressure pot is recommended
- Limit fluid hose length to 50 feet
- Use standard conventional equipment

Recommended thinner

THINNER 40-26 (97-731), THINNER 60-30 (97-733)

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

Recommended thinner

THINNER 40-26 (97-731), THINNER 60-30 (97-733)

Volume of thinner

0 - 5%

Nozzle orifice

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



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Brush/roller

- Use a high quality natural bristle brush. Ensure brush is well loaded to avoid air entrainment. Brush application is limited to small touch up areas of a few square inches
- Roller application is not recommended

Recommended thinner

THINNER 40-26 (97-731), THINNER 60-30 (97-733)

Volume of thinner

0 - 5%

Cleaning solvent

THINNER 21-06 (97-727)

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)
Itself and recommended topcoats	Minimum	48 hours	36 hours	20 hours	16 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited

Notes:

- Overcoating times valid for a relative humidity of 50%
- To confirm cure to topcoat, conduct a MEK rub test per ASTM D4752. A rating of 4 or higher is sufficient for topcoating
- 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 to touch	Dry to handle
40°F (4°C)	3 hours	12 hours
50°F (10°C)	2 hours	8 hours
70°F (21°C)	1 hour	4 hours
90°F (32°C)	40 minutes	2.5 hours

Note: Curing times valid for a relative humidity of 50%

Pot life (at application viscosity)	
Mixed product temperature	Pot life
70°F (21°C)	24 hours
90°F (32°C)	8 hours



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Product Qualifications

- SSPC Paint 20, Type IC, Level 1
- MPI Category #19, Inorganic zinc rich primer

DISCLAIMER

- For industrial or professional use only

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

Danger

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container. Refer to www.pittsburghpaints.com, Spontaneous Combustion Advisory for additional information

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

- | | | |
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| • 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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AVAILABILITY

Packaging

1-gallon and 5-gallon kits

Product codes	Description
97-676	Gray
97-677	Green

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