



HPC/Industrial Maintenance

METALHIDE® One-Pac Inorganic Zinc Rich Primer

Generic Type

Inorganic self-curing ethyl silicate, metallic zn

Tinting and Base Information

Do not tint	
97-676	Gray
97-677	Green

General Description

METALHIDE ONE-PAC® Inorganic Zinc Rich Primers are intended for use in industrial service on properly prepared ferrous metal surfaces. They provide excellent galvanic protection and weathering, similar to galvanizing. Excellent for use in coastal, marine or offshore environments.

Recommended Uses

Ferrous Metal

Features / Benefits

Provides galvanic corrosion protection.
Can be used where most two component inorganic zincs are used.
Resists sagging
Single component product that can be partly used then resealed for future use.

Limitations of Use

Not intended for residential use. The need for a topcoat and the type of topcoat will vary according to exposure. Apply only to surfaces with temperatures 5°F (3°C) above the dew point or greater. Extreme caution must be exercised to avoid painting over ice when surface temperature is at or below 32°F (0°C). Can be applied at surface temperatures from 0°F (-17°C) to 140°F (60°C). Avoid exterior painting late in the day when dew or condensation are likely to form or when rain is threatening. These products may be applied at relative humidities ranging from 30% to 85%. These products cannot withstand direct exposure to acids or alkalies. A suitable topcoat must be used for such environments.

Product Data

Gloss:	Matte
VOC*:	3.83 lbs/gal 460.00 g/L
Coverage:	208 to 276 sq ft/gal (19 to 26 sq. m/3.78L)
<i>Note: Does not include loss due to varying application method, surface porosity, or mixing.</i>	
DFT:	3.0 minimum to 4.0 maximum
Weight/Gallon*:	17.4 lbs. (7.9 kg) +/- 0.3 lbs. (136 g)
Volume Solids*:	51.7% +/- 2%
Weight Solids*:	73.8% +/- 2%
Clean-up:	97-731, 97-733 PPG Thinners, Denatured Ethyl Alcohol

Results will vary by color, thinning and other additives.

*Product data calculated on full formula.

Drying Time:

To Touch:	1 hour
To Handle:	4 hours
To Recoat:	16 hours

Dry Time @77°F (25°C); 50% relative humidity

In Service Temperature:

Dry Heat (F): 750° Dry Heat (C): 399°

Flash Point: 40°F, (5°C)

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General Surface Preparation

Remove all paint, mill scale, and rust. The surface to be coated must be dimensionally stable, dry, clean, and free of oil, grease, and other foreign materials.

STEEL: Non-Immersion Service -- The minimum surface preparation for ferrous metal substrates is SSPC-SP6 Commercial Blast cleaning, NACE Number 3. Service life of coating is in direct proportion to surface preparation. Immersion Service -- Near White Metal Blast SSPC-SP10, NACE Number 2, is mandatory for ferrous metals. The surface to be coated must be clean, dry, and well prepared to receive the coating.

HPC Systems in Detail Brochure (H10788) COATING SYSTEMS: 206-HD, 216-HD, 217-HD, 227-HD, 229-HD, 238-HD, 242-HD, 245-HD, 313-HD, 314-HD, 331-HD, 350-HD, 479-HD.

For specific recommendations, see your PITTSBURGH® Paints dealer or call 1-800-441-9695.

Recommended Primers

none Self priming on properly prepared surfaces.

Application Information

Recommended Spread Rates:

Wet Mils :	5.8	minimum to	7.7	maximum
Wet Microns:	147.3	minimum to	195.6	maximum
Dry Mils :	3.0	minimum to	4.0	maximum
Dry Microns:	76.2	minimum to	101.6	maximum

Application Equipment: Changes in application equipment, pressures and/or tip sizes may be required depending on ambient temperatures and application conditions.

Conventional Spray: Atomization Pressure: 55 - 70 Fluid Pressure: Can not specify, dependent on numerous factors.

Airless Spray: Pressure: 1500 psi, tip 0.019" - 0.025"

Brush: For small areas, use low cost brush

Roller: Not Recommended.

Thinning:

Not normally required. In hot weather, 97-731 Thinner may be added at up to 6 oz. per gallon. Care must be exercised because material thins rapidly and over thinning will cause rapid zinc settling. Certain job specifications call for application of a thin film (0.75 - 1.0 mil dry film) of inorganic zinc rich primer. By thinning at a volume ratio of 2 parts primer to 1 part 97-731 Thinner, such thin films may be applied as smooth continuous coatings.

Directions for Use

Mechanical mixing must be used to completely disperse any settled zinc dust. Stir until mixture is uniform and free from lumps. Before spraying, strain through a 30-60 mesh screen. Maintain constant agitation during use to prevent zinc dust from settling. Read all label and Material Safety Data Sheet (MSDS) information prior to use. MSDS are available through our website or by calling 1-800-441-9695.

Permissible temperatures during application:

Material:	50 to 90°F	10 to 32°C
Ambient:	32 to 100°F	0 to 38°C
Substrate:	0 to 140°F	-18 to 60°C

PPGAF believes the technical data presented in this bulletin is currently accurate; however, no guarantee of accuracy, comprehensiveness, or performance is given or implied. Improvements in coatings technology may cause future technical data to vary from what is in this bulletin. For complete, up-to-date information visit our web site or call 1-800-441-9695

Packaging: 1-Gallon (3.78L) 5-Gallon (18.9L)

Not all products are available in all sizes.



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Additional copies of this bulletin can be obtained from our web site or by calling 1-800-428-7806.

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