ZINC PLATE ULTRA II PCP

Product Information

Product Description

ZINC PLATE ULTRA II PCP is an inorganic preconstruction zinc shop primer providing heat-resistance up to 1472°F (800°C), excellent welding properties, and resistance to zinc salt formation caused by weathering. It is also designed to minimize the generation of zinc fume comparing with typical zinc silicate shop primers. Zinc Plate Ultra II PCP provides productivity, efficiency and flexibility together with improved working environments.

- NSF approved to Standard 61 for potable water
- High heat exposure
- Minimizes need for repair after welding, cutting, or fairing
- Minimizes zinc fume generation

Product Characteristics

Finish: Flat

Color: Gray, green, red, orange

Volume Solids: 32.5% ± 2% (per ISO3233), mixed

Weight Solids: 54% ± 2%, mixed

VOC (EPA Method 24): 585 g/L; 4.8 lb/gal, mixed

Zinc Content in Dry Film: 53.2% ± 2% by weight

Mix Ratio: 1.74A:1B by volume

Recommended Spreading Rate per coat:

<table>
<thead>
<tr>
<th>Wet mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
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<td>1.5 (40)</td>
<td>3.6 (90)</td>
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| Dry mils (microns) | 0.5 (13) | 1.2 (30) |

~Coverage sq ft/gal (m²/L) 433 (10.6) 1040 (25.4)

Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft 520 (12.7)

Drying Schedule:

Surface dry: 5 minutes 2 minutes 1 minute

Dry hard: 10 minutes 5 minutes 3 minutes

To topcoat:

minimum: 10 days 7 days 5 days

maximum: - - -

Drying time is temperature, humidity, and film thickness dependent. Relative humidity below 50% may impede dry/cure times. Minimum temperature for curing is 32°F (0°C). Must be fully cured prior to topcoating.

Pot Life: 32 hours 24 hours 16 hours

Shelf Life: 6 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).

Flash Point: 53°F (11°C)

Reducer/Clean Up: Reducer #58 (0 ~ 25%, up to one quart per mixed gallon)

Recommended Uses

Super heat-resistant long-exposure shop primer for steel plate

Certificate Approvals

When used as part of an approved system/scheme, this material has the following certifications:

- NSF Standard 61: Potable Water Storage for tanks 200,000 gallons (756,000 L) minimum, topcoat recommended.
- Weld Quality: Shop Primers for Corrosion Protection of Steel Plates & Sections (DNV)
- Thermal Cutting: ISO 17652-3 Influence of Primer of Max. Speed Usable for Thermal Cutting
- Weld Fume Generation: ISO 17652-4 Emission of Fumes and Gases

Performance Characteristics

System Tested:

1 ct. Zinc Plate Ultra II PCP @ 0.8 mils (20 microns) dff

Test Name Test Method Results

| Adhesion | ASTM D3359 | 5B |
| Direct Impact Resistance | ASTM D2794 | 100 in lb |
| Flexibility | ASTM D522 | Pass 1/8" |
| Reverse Impact Resistance | ASTM D2794 | 40 in lb |

Application Equipment

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up: Reducer #58 (0 ~ 25%, up to one quart per mixed gallon)

Airless Spray

Packings: Teflon

Tips: 0.19” through .023”

Fan angle: 65 through 80 degree

Nozzle pressure: 1200 psi / 80 bar

Conventional Spray

Pot pressure: 2.5-5.0 bar / 35-75 psi

Atomizing pressure: 1.5-2.5 bar / 20-35 psi

Air hose: 10 mm / 3/8” internal diameter

Material hose: 13 mm / 1/2” internal diameter

If specific application equipment is not listed above, equivalent equipment may be substituted.

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PRODUCT INFORMATION

**Surface Preparation**

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Zinc rich coatings require direct contact between the zinc pigment in the coating and the metal substrate for optimum performance.

Abrasive blasting to ISO-Sa 2.5, SSPC-SP10 is recommended.

Surface profile should be angular and jagged with a profile height of 1.5 - 3 mils (38 - 75 μm)

**Tinting**

Do not tint.

**ORDERING INFORMATION**

Packaging:
- Part A (Binder): 12.04 L / 3.18 gal
- Part B (Paste): 6.89 L / 1.82 gal

Weight: 11.09 ± 0.2 lbs/gal ; 1.33 Kg/L, mixed

**Mixing Instructions**

Mix contents of each component thoroughly using low speed power agitation. Make certain no pigment remains on the bottom of the can. Then pour one unit of Part A into one unit of Part B. Thorougly agitate the mixture with low speed power agitation. Re-stir before using. Continuous agitation recommended during application.

**Safety Precautions**

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

**Warranty**

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