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## Technical DATA SHEET

Product: Heavy Duty Undercoating

Revision Date 1st June 2020

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### 1. General Info

|                       |   |
|-----------------------|---|
| <b>Product Name:</b>  | Heavy Duty Undercoating   |
| <b>Synonyms:</b>      | Fire Resistant to 3,000 °F + Encapsulate Undercoating (2-in-1 Product + Eco-Friendly + Ultra-Low VOC).<br>Heavy Duty Fire Resistant Encapsulate Undercoating / Super-High Temp Stove Paint to 3,000 °F (Eco-Friendly + Ultra-Low VOC) |
| <b>Manufacturer:</b>  | Pipedream Industries<br>6050 Peachtree Parkway Suite 240-312 Norcross, Georgia, USA, 30092.   |
| <b>Telephone:</b>     | +1 (470) 231-5943   |
| <b>Email:</b>         | <a href="mailto:info@pipedreamindustries.com">info@pipedreamindustries.com</a>  |
| <b>Certification:</b> | ASTM E84 Class A Rating   |

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### 2. FEATURES:

|                  |                                      |
|------------------|--------------------------------------|
| <b>Features:</b> | Fire Resistance Beyond 3000°F/1650°C |
|                  | Encapsulating Benefits               |
|                  | Scratch Resistant (4.5H)             |
|                  | UV Resistant                         |
|                  | Corrosion Resistant                  |
|                  | All-In-One, One-Coat Application     |

|  |   |
|--|---|
|  | Carbon Negative / Ultra-Low VOC   |
|  | No Foam Reaction When Subjected To Flames                                 |
|  | Usable on Multiple Materials (OSB, Plyboard, Timber, Concrete, Steel etc) |
|  | Interior/Exterior Use   |

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### 3. PHYSICAL PROPERTIES

|                                 |   |
|---------------------------------|---|
| <b>Colour:</b>                  | Misty Gray                                      |
| <b>Finish:</b>                  | Textured finish                                 |
| <b>Volume Solids:</b>           | 65%   |
| <b>Typical Thickness:</b>       | Dry: 25 microns / coat                          |
| <b>Theoretical Coverage</b>     | 200-250 sq. ft./gal (5.5-7.5 m <sup>2</sup> /L) |
| <b>Coats Recommended</b>        | 1-2 Coats                                       |
| <b>Specific Gravity:</b>        | 1.6000 g/cm <sup>3</sup>                        |
| <b>VOC:</b>                     | 0 g/L   |
| <b>Ph:</b>                      | Neutral   |
| <b>Odor:</b>                    | Odorless  |
| <b>Temperature Resistance:</b>  | 3000°F (1650°C)                                 |
| <b>Application Temperature:</b> | ~41°F - ~140°F (~5°C - ~60°C)                   |
| <b>Operation Temperature:</b>   | ~131°F - ~3632°F (~55°C - ~2000°C )             |

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### 4. SURFACE PREPARATION:

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| All surfaces to be coated should be completely clean, dry and free from contamination. Surface preparation method shall be in accordance with ISO 8504: 2000. |
| Remove salt and other water-soluble contaminants by fresh water.  |
| Remove oil and grease with suitable detergent or solvent (SSPC-SP-1)  |

Remove rust, mill scale and other loose material completely by abrasive blasting (ISO 8501-1:2007 Sa 2 1/2 or SSPC SP-10)

## 5. APPLICATION:

|                                |  |
|--------------------------------|--|
| <b>Application Conditions:</b> | Mix well before use                      |
| <b>Mixing:</b>                 | DO NOT MIX WITH THINNERS                 |
| <b>Induction Time:</b>         | NA                                       |
| <b>Application Method:</b>     | Conventional Spray                       |
|                                | Brush Roller (Power mix to loosen paint) |
|                                | Mortar Application                       |

|   |                      |                |
|---|----------------------|----------------|
| <b>Airless Spray:<br/>(example: Titan 440i)</b> | Pump Fluid Pressure: | 2100-2700 psi  |
|   | Manifold Filter:     | Remove Filter  |
|   | Gun Filter:          | Remove Filter  |
|   | Fluid Hose:          | 1/4 " Diameter |
|   | Gun:                 | LX-80 II       |
|   | Tip:                 | .021 - .025    |

## 6. DRYING TIME:

Drying time may vary depending on film thickness, ventilation, humidity, undercoat paint condition etc.

|                     | <b>41°F / 5°C:</b> | <b>68°F / 20°C:</b> | <b>86°F / 30°C:</b> |
|---------------------|--------------------|---------------------|---------------------|
| <b>Surface Dry:</b> | 3 Hours            | 1 Hour              | 1 Hour              |

|                   |         |         |         |
|-------------------|---------|---------|---------|
| <b>Touch Dry:</b> | 5 Hours | 3 Hours | 3 Hours |
|-------------------|---------|---------|---------|

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#### 7. OVERCOATING INTERVAL:

|                 | <b>41°F / 5°C:</b> | <b>68°F / 20°C:</b> | <b>86°F / 30°C:</b> |
|-----------------|--------------------|---------------------|---------------------|
| <b>Minimum:</b> | <b>16 hours</b>    | <b>12 hours</b>     | <b>8 hours</b>      |
| <b>Maximum:</b> | <b>7 days</b>      | <b>7 days</b>       | <b>7 days</b>       |

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#### 8. SAFETY PRECAUTIONS:

Detail information is given on Material Safety Data Sheet (MSDS). Avoid inhalation of spray mist or vapour. Avoid skin and eye contact. Paint contacted with skin should be immediately removed with water and/or suitable cleanser. Eyes should be flushed with water and seek immediate medical attention.

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#### 9. STORAGE:

Store in dry, cool conditions.

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#### 10. SHELF LIFE:

5 years from manufacturing date

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#### 11. GENERAL INFORMATION:

Although direct two coats application on to steel surface is possible for in door service, blast cleaning to steel surface is required.

- Make sure to protect painted film from dust in case drying time under normal temperature becomes long before high temperature service starts.

|   |  |
|---|--|
| <b>Hazard Symbols:</b>                      | Eye Irritant   |
| <b>Safety Phrases:</b>                      | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  |
| <b>National Regulations:</b>                | All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. |
| <b>Information About Limitation Of Use:</b> | For use only by technically qualified individuals.   |

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## 12. OTHER INFORMATION:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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