

### Kit Code: 171J1; Base 171J9; Curing Agent 95041

Formerly Jones-Blair 39910

**Description:** Chem-O-Z HS2 Organic Zinc-Rich Primer is a high performance, proprietary urethane-epoxy organic zinc rich primer for use where corrosion resistance is paramount. Provides cathodic protection of steel through sacrificial electro-chemical reaction of the zinc pigment.

**Recommended use:** For use on steel structures, trucks, trailers, rail cars, bulk tanks, and chemical trailers where maximum corrosion resistance and durability are necessary. Especially suited for coastal and marine exposures above the splash zone over a sandblasted surface.

**Features:**

- Excellent adhesion.
- Solvent resistant.
- Excellent corrosion resistance.
- Same catalyst as Urethane HS2 and Acrylithane HS2.

**Service temperatures:** Maximum continuous dry heat exposure: 300°F/149°C.

### Physical constants:

Color/Shade code: Gray/5L091 (other colors available)  
Finish: Flat  
Volume solids: 70% ± 1  
Theoretical spreading rate: 449 ft<sup>2</sup>/US gallon [11.02 m<sup>2</sup>/liter] – 2.5 mils [63 microns]  
Flash point: 77°F/25°C  
Specific gravity, mixed: 24 lbs/US gallon [2.87 kg/liter]  
Touch dry: 3 hours, 68°F/20°C  
VOC content: 291 g/liter [2.43 lbs/US gallon]  
*The physical constants stated are nominal data according to the Hempel Group's approved formulas.*

### Application details:

Product / Mix ratio: Base 171J9 : Curing agent 95041 / 3 : 1 by volume  
Application method: Airless spray / Air spray / Brush  
Thinner (max. vol.): 08320 (0 – 5%) / 08320 (0 – 15%) / Not required  
Pot life: 1.5 hours, 68°F/20°C  
Nozzle orifice: 0.017" – 0.021" airless / 0.110" or 2.8 MM fluid cap air spray  
Nozzle pressure: 2,000 psi [138 bar]  
*(Airless spray data are indicative and subject to adjustment)*  
Cleaning of tools: Hempel's Thinner 08450 or 08320 Medium Reducer  
Indicated film thickness, dry: 2.5 – 3.5 mils [63 – 90 microns]  
Indicated film thickness, wet: 3.6 – 5.0 mils [90 – 128 microns]  
Overcoat interval, min: 4 hours, 68°F/20°C  
Overcoat interval, max: 1 week, 68°F/20°C (see Overcoating on Page 2)

**Surface preparation, new build:**

- Remove oil and grease etc. thoroughly with suitable detergent.
- Remove salts and other contaminants by high pressure fresh water cleaning.
- Abrasive blasting to Sa 2½ (ISO 8501-1:2007) or SSPC-SP 10.
- Surface profile: Medium (G) (ISO 8503-2).

**Application conditions:**

- Surface must be completely clean and dry at the time of application.
- Ensure adequate ventilation.
- Air and surface temperature must be above the dew point to avoid condensation.
- Air and surface temperature must be between 50°F – 100°F [10°C – 37°C].
- Paint temperature should be above 59°F/25°C for best performance.
- If used as anticorrosive protection under insulation of high temperature equipment, no moisture must penetrate during slow-down periods. This to avoid risk of wet corrosion when the temperature rises.

**Subsequent coat:** According to specification. Recommended systems are: Chem-O-Gard or Chem-O-Pon primers.

**Overcoating:** If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion. The surface must be clean before overcoating. Remove zinc salts or other contamination by high-pressure water cleaning.

### Additional information:

**Mixing/stirring:** This product contains heavy particles. Stir the base thoroughly in order to re-disperse any possible settling after storage. Combine the base and curing agent, and mix for 5 minutes to homogeneity. After mixing, maintain stirring to keep the wet paint as a homogeneous mixture. This is specifically important in case of heavy thinning and/or a long break in application.

**Additives:** 99LJB (99041 Acrylithane HS2 Accelerator): Shortens dry times in all weather conditions. Add at 0.5 fl./oz. per mixed gallon [3.9 mL/mixed liter].

**Film thicknesses/thinning:** May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and recoating interval.

**Weathering:** Epoxy coatings can chalk in outdoor exposure. In high temperatures, they can become sensitive to mechanical damage and chemical exposure.

**Storage/shelf life:**

- Store in a cool area to ensure full shelf life. Recommended temperature: 75°F/23°C.
- Shelf life: 171J9, 1 year; 95041, 2 years.

**Safety:** Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult product Safety Data Sheets and follow all local or national safety regulations.

**Note:** Chem-O-Z HS2 Organic Zinc-Rich Primer is for professional use only.

**Issued by:** Hempel (USA) – 171J1

This Product Data Sheet ("PDS") relates to the supplied product ("Product") and is subject to updating from time-to-time. Accordingly, the buyer/applicator should have regard to the PDS supplied together with the relevant batch of the Product (and not an earlier version). In addition to the PDS, the buyer/applicator may receive some or all of the following specifications, statements and/or guidelines as listed below or as are available from the Hempel website under 'Products' at [www.hempel.com](http://www.hempel.com) (the "Additional documents"):

No.	Document description	Location/comments
1.	Technical Statement	One-off specific advice provided on request for specific projects
2.	Specification	Only issued for specific projects
3.	PDS	This document
4.	Explanatory Notes to the PDS	Available at <a href="http://www.hempel.com">www.hempel.com</a> and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>

In the event of a conflict of information between the PDS and the Additional documents, the order of priority of information shall be in the order as set out above. In such event you should also contact your representative at Hempel for clarification. Furthermore, the buyer/applicator must have full regard to the relevant Safety Data Sheet provided with each Product and which can also be downloaded from [www.hempel.com](http://www.hempel.com).

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