

1011 WB-IOZn

High Performance Primer

GENERAL DESCRIPTION

DUROMAR HPL-1011 WB-IOZn is a state-of-the art, Zero VOC, inorganic zinc engineered specifically for use on steel surfaces as a primer for all Duromar® High Performance Lining products. When applied at the recommended dry film thickness the primer provides a chemically bonded surface ready for top coating in as little as 2 hours under normal conditions.

CHEMICAL DESCRIPTION

Water-Borne High Ratio Zinc Silicate

FEATURES

- Excellent adhesion to steel (No Undercutting)
- Superior corrosion resistance for severe coastal and marine environments. Meets or exceeds 5000 hour salt fog spray without deterioration (ASTM B117)
- Cathodic protection of steel, even in damaged areas
- Outstanding primer system for epoxies, polyaspartics, and polyureas
- Can be used as a stand-alone lining system in certain services

Performance Properties @ 70°F

Max. Operating Temp.	750°F
pH Range	4-10.5
Slip Coefficient	.63
Water	Excellent
Mild Acids/Alkalis	Fair
Solvents	Excellent
Hydrocarbons	Excellent

Physical Properties

Components	2
Visual Appearance	Grey/Matte
Density	3.0 ± 0.1
Solids by Wt. (Mixed)	80 ± 2%
Solids by Vol. (Mixed)	68 ± 2%
Zinc Content (Wt.)	91 ± 2%
Zinc Content (Vol.)	77 ± 2%
Zinc Type (ASTM D520)	Type III

Application Information

Surface Prep	SSPC-SP 10
Surface Profile	1-3 mils
Min. Application Temp.	40°F
Film Thickness/Coat	3 mils Min. 5 mils Max.
Number of Coats	1-2
Max. DFT	10 mils
Theoretical Coverage	1090 ft ² / Gal. @ 1.0 mil DFT
Pot Life @ 70°F	6-8 Hrs.
Dry-To-Touch	15-30 Mins.
Recoat Time @ 70°F	2 Hrs. Min. 30 Days Max.
Initial Cure	2-3 Hrs.
Full Immersion Cure	24 Hrs.
Mixing Ratio by Weight	2.55 : 1 (B/A)
Mixing Ratio by Volume	1 : 2.33 (B/A)
Application	Brush, Roller,
Equipment	Pressure Pot (Agitated)

SHELF LIFE

This product has a one year shelf-life of one year when stored in a dry area at 60-95°F (16-35°C) in the original sealed container.

HANDLING/SAFETY

Impervious gloves, protective clothing, & splash resistant goggles are recommended. Direct contact with skin should be avoided as it may cause irritation. Harmful if ingested. Keep from open flames.

Warning! Eye and skin irritant. May cause dermatitis and sensitization.

Always read and understand the product MSDS.

Avoid contact with eyes, skin or clothing. Avoid breathing vapor, mist or spray. Use with good ventilation.

FIRST AID

In case of contact:

Eyes: Immediately flush with water for at least 15 minutes.

Skin: Immediately remove from skin with dry cloth followed by thorough washing with soap and water.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen.

Ingestion: Give large quantity of milk or water, induce vomiting. Contact a physician immediately.

All Duromar products are formulated based on over 25 years of experience, laboratory tests, material data, field installations, and technical publications, which we believe to be, to the best of our knowledge, accurate and reliable. This information is intended to be used for guidance only. Because the only true reliable test is one that is in actual operation, Duromar will make available at no charge samples of materials for that testing purpose. Duromar, Inc. has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Duromar, Inc. does, therefore, not accept any liability arising from loss, injury, or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise). The data contained herein is liable to modification as a result of practical experience and continuous product development. This data sheet replaces and annuls all previous issues, and it is, therefore, the user's responsibility to ensure that this sheet is current prior to using the product.



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General Application Guidelines

HPL-1011 WB-IOZn

Always read and understand the specific product Data and MSDS sheets and the **DUROMAR Information and Application Guide** before using these High Performance Lining Products. For more information contact **DUROMAR** at 781-826-2525 or by email at information@duromar.com.

I. STORAGE:

Store all product in a clean, warm area where the temperature remains between Store between 60-95°F (16-35°C). Cold products are very viscous and will be difficult to mix and apply.

Products shipped during cold months can remain cold for many days even when stored as recommended. Paste or trowel applied products will remain cold longer than liquid or spray applied products. Heating of the individual components may be required to bring the products to the recommended temperatures.

II. SURFACE PREPARATION: SSPC-SP 10

All surfaces to be lined are to be clean, dry, and oil free. Refer to the **DUROMAR Information and Application Guide** for specific instructions for various surfaces such as concrete, metal fiberglass, etc.

Minimum surface temperature during application - refer to Product Data Sheet.

For Brush, Roller, or Spray Applied Products, the surface profile must be 1 mils minimum.

III. APPLICATION EQUIPMENT:

Brushes - short bristle, nylon, and non-shedding. Replace when products become hot or stiff.

Rollers - short nap (¼" max.) non-shedding, with a polyethylene core. Replace when products become hot or stiff.

Conventional Spray System With Agitated Pressure Pot.

Recommendations are listed in the **DUROMAR Information and Application Guide**.

IV. MIXING:

Do not add solvent or thinner to any DUROMAR® product. These materials are formulated to be applied as shipped after proper mixing.

Do not add Part A (Liquid Silicate) to Part B (Metallic Zinc Powder).

Open Part A (Liquid Silicate) container and begin mixing. While mixing, slowly add Part B (Metallic Zinc Powder) to Part A and continue mixing. Once completely incorporated, pour the mixed product through a 40-mesh screen into a pressure pot or second pail. Continually agitate while applying mixed materials.

V. APPLICATION:

For hand application, immediately break down the full unit into smaller portions such as roller pans, small buckets, or trowel boards. This will keep the product cooler and improve the useable life.

For spray application using a single or plural component airless system, see Section 4 in the **DUROMAR Information and Application Guide**.

Make sure all components are working according to the airless equipment manufacturers' instructions and the product components are at the recommended temperature before spraying.

VI. OVERCOATING:

Always check for and remove contamination of any kind before applying multiple coats of any DUROMAR® product. In particular, when applying multiple coats of an epoxy product, always check for Amine Blush before applying the next coat. Amine Blush may occur when the epoxy surface is cool or in humid environments. It has the appearance and feel of a light oil film on the surface. When dry it has a white chalky appearance. If detected, wash the surface with a 2% hydrochloric acid solution followed by a water wash until the surface pH is between 6-8. Allow to dry before applying the next coat.

VII. CLEAN UP

Clean fresh water can be used for cleaning tools and equipment.

Rev. 10/2019



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