



# PORSELIN

## Epoxy Enamel Paint

### 1. Product Description

a. **Basic Use:** Porselin is an epoxy enamel paint designed to coat virtually any sound vertical surface. Porselin dries to a brilliant high gloss finish, and may be used in both interior and exterior applications. Porselin protects coated surfaces from chemical attack, weathering and abrasion.

b. **Features/Benefits:**

- High gloss surface provides for easy cleaning and maintenance.
- Available in many standard colors to provide a decorative surface.
- Dries to touch within 4 hours after application at 70°F (21°C).
- Epoxy-based coating is highly resistant to chemical attack including: harsh cleaning compounds, most acids and caustics, lubricating oils and greases, vegetable oil and animal fat.
- Retains color and gloss even when exposed to common weathering including sun, rain, snow, sleet, ice, and wind.
- Porselin is very durable as it will outperform most conventional enamel paint by at least five times.
- After achieving final cure, Porselin is unaffected by low temperatures and may be used in freezer applications.
- Easy to use as ordinary paint. May be applied by brush, roller or sprayer.

c. **Typical Applications:** Walls or other vertical surfaces in manufacturing plants, tunnels, laboratories, rest rooms, corridors of schools, office buildings or hospitals, laundry rooms, mechanical equipment rooms, print shops, penitentiaries and mental institutions.

d. **Limitations:** Porselin is not designed to be applied to floor surfaces and should not be applied when ambient or substrate temperature is below 50°F (10°C). Do not use when solvent odors may be objectionable or when adequate ventilation is not possible.

e. **Composition:** Porselin is a two-component liquid compound consisting of epoxy and solvent having the viscosity of conventional paint.

f. **Color/Appearance:** Porselin is available in a wide range of standard colors including; white, black, light blue, light green, beige, gray, safety red and safety yellow.

### 2. Packaging

Porselin is supplied in units, each containing the proper proportions of liquid components. Standard packaging information is shown below:

Unit Size	Binder	Activator	Shipping Wt.
1 gal. (3.8 liter)	1/2 gal. (1.9 liter)	1/2 gal. (1.9 liter)	12 lbs. (5.4 Kg)
2 gal. (7.6 liter)	1 gal. (3.8 liter)	1 gal. (3.8 liter)	24 lbs. (10.9 Kg)
10 gal. (37.8 liter)	5 gal. (18.9 liter)	5 gal. (18.9 liter)	108 lbs. (49.0 Kg)

### 3. Estimating/Coverage

The recommended application rate is 300 sq. ft./gal. (7.4 sq. m/liter). Application rates will vary with texture or roughness of substrate. For best results use two coats.

### 4. Technical Data

Resistance to Solvents and Chemicals

• <i>Most Acids</i>	<i>Unaffected</i>
• <i>Acetone</i>	<i>Not Recommended</i>
• <i>Calcium Chloride</i>	<i>Unaffected</i>
• <i>Detergent Solution</i>	<i>Unaffected</i>
• <i>Animal Fats</i>	<i>Unaffected</i>
• <i>Gasoline</i>	<i>Unaffected</i>
• <i>Petroleum Oil</i>	<i>Unaffected</i>
• <i>Vegetable Oil</i>	<i>Unaffected</i>
• <i>Formaldehyde 37%</i>	<i>Not Recommended</i>
• <i>Methyl Ethyl Ketone</i>	<i>Not Recommended</i>
• <i>Urine</i>	<i>Unaffected</i>

### 5. Directions for Use

a. **Preparation:** The surface to be coated must be sound, dry and thoroughly clean. Old coatings that are not intact and firmly attached must be removed. Waterzall Degreaser or Waterzall Concentrate solution should be scrubbed onto the substrate to remove all oil, grease, dirt or grime and other deleterious material. Flush thoroughly and allow to dry before Porselin application.

**b. Priming:** All bare or previously uncoated wood or concrete surfaces should first be primed with Diamite Primer and allowed to dry tack free. Contact a Metalcrete technical service representative for application recommendations over metal surfaces.

**c. Mixing:** Thorough blending of all components is essential. Use a power drill with a Metco Jiffy mixing paddle. First, mix the binder separately; then, mix the activator separately. Next, add the mixed activator to the mixed binder and thoroughly blend for at least two minutes at revolution speeds that will not entrap air bubbles into the freshly mixed Porselin. Let stand for two minutes and mix again for two additional minutes.

**d. Application:** After all bare or previously unpainted surfaces have been coated with Diamite Primer, apply the mixed Porselin over the area to be coated. Porselin may be applied by brush, roller or sprayer. One coat usually provides excellent cover and appearance. To insure flawless coverage and protection against weathering and chemical attack, at least two coats are recommended. For brush or roller application, thinning with solvent is neither required nor recommended. For spray applications, up to 10% reduction with Porselin Reducer is permissible to obtain a lower viscosity.

**e. Working Time/Pot Life:** All mixed Porselin should be applied within 8 hours after mixing.

**f. Cure Time:** Porselin becomes tack-free in approximately 4 hours and may be re-coated at this time if additional protection is required. Final cure time requires 3 to 5 days.

**g. Clean-up:** Either DL Solvent or Waterzall Concentrate and warm water may be used for cleaning tools and equipment.

**h. Maintenance:** Porselin surfaces should be cleaned with a Waterzall Concentrate and water solution. Waterzall may also be used at full concentrate strength to remove built-up deposits and stains. Porselin may be reapplied to itself.

## 6 Availability

Porselin is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Custom colors may take up to 8 working days before shipping. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

## 7. Warranty

Porselin is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

## 8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



***Metalcrete Industries***

4133 Payne Avenue • Cleveland, Ohio 44103  
440-526-5600 • 800-526-5602 • FAX 440-526-5601