

## SYSTEM: PUREPOXY METALLIC

# TECHNICAL DATA SHEET

### DESCRIPTION

A very popular decorative flooring system for residential, commercial or industrial use. Available in both epoxy and urethane and in a wide variety of beautiful and shiny colours. Purepoxy Metallic Flooring System is designed to provide a beautiful finish, color brilliance and depth. Different unique designs can be made by manipulation to create beautiful results and effects. Their quality, color variation and durability make them a very popular choice and product within commercial retail settings.

### ADVANTAGES

- Vibrant Colors
- Infinite creation with 2-3 different colors
- Easy to install (2 or 3 coat system)
- Interior use only
- 2-day application with next-day return to service
- Unique application techniques
- UV stable
- Waterbased urethane or epoxy wax to protect the floor
- Can be polished

### POPULAR APPLICATIONS

- Showrooms
- Entry-ways & lobbies
- Residential
- Shopping Malls
- Car Dealerships

### CURED SYSTEM PROPERTIES

<b>COEFFICIENT OF FRICTION (ASTM C-1028)</b>	dry: 0.83    wet: 0.98
<b>HARDNESS (ASTM D 2240)</b>	94
<b>ABRASION RESISTANCE (ASTM D-4060 MG LOSS)</b>	22-28
<b>TENSILE STRENGTH (ASTM D-638,D-2370 PSI)</b>	4500-5000
<b>SUBSTRATE ADHESION (ASTM D-4541, PSI)</b>	400-500+, concrete fracture
<b>FLAMMABILITY (ASTM D-635)</b>	self extinguishing

## RECOMMENDED THICKNESS

	PE-100
PACKAGING	11.35 L (3 US GAL KIT)
BASE COAT	10 mils (160 sq. ft/gal)
METALLIC	40 mils (40 sq. ft/gal)
TOP COAT	Optional

## SURFACE PREPARATION

**Old concrete:** Concrete surface must be cleaned. BLASTRAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminants. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application.

**New concrete:** The concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lb/in<sup>2</sup>) after 28 days and traction resistance must be at least 1,5 MPa (218 lb/in<sup>2</sup>). BLASTRAC, sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) is required to remove the surface laitance that appeared during the curing process. A primer should be used to reduce out-gassing and promote adhesion.

## APPLICATION DIRECTION

### BASE COAT:

- Apply a base coat of PE-100 colored with an opaque color linked with the metallic color that will be applied.
- Let the base coat completely dry (8h minimum).
- **Make sure the surface has no imperfections or pores, and that the surface is completely smooth and uniform.**
- If the surface has imperfections, you can repair it with our PE-CF product. Once the repair product is dry, sand the surface to make it uniform and smooth. Clean the surface and redo a colored PE-100 base coat, 10 mils thick.

### METALLIC COAT:

- To obtain a depth effect with the coloring, you must apply a layer of PE-100 colored with the chosen metallic color, to a total thickness of 40 mils.
- **COLORATION: it is imperative to incorporate the color into part A.**  
Liquid coloring: 500 ml of liquid coloring per gallon. Metallic pigment: 4 oz of powder per gallon.
- Once the color has been mixed with part A, incorporate part B and follow the mixing instructions.
- Pour the product directly on the surface creating an irregular bead, then spread with a squeegee to a coverage of 40 ft<sup>2</sup>/gal.
- To create unique metallic effects, come back 10 minutes before the end of working time and smooth the surface using a squeegee or pass a roller in irregular directions.

### Important:

- During the application you must always move around with spikes shoes and respect the working time.
- It is important to make sure that the metallic coat is completely dry before returning to service or applying an optional top coat (between 10-12 hours minimum).

*\*Consult the specific products technical data sheet for further information.\**

## MIXING

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Materials should be pre-conditioned to a minimum of 50°F (10°C) prior to use. Thoroughly mix each component separately. Pour component B into component A using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 1 minute using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

Do not prepare more material than can be applied within the limits of working time.

*\*Consult the specific products technical data sheet for further information.\**

## CLEANING

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Clean all tools and materials with xylene. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

## RESTRICTIONS

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- Substrate temperature must be 5.5°F (3°C) above dew point measured
- Humidity content of substrate must be < 4 % when coating is applied
- Do not apply on porous surfaces where a transfer of humidity may occur during application
- Avoid exterior use on substrates at ground level
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period
- Surface may discolor in areas exposed to regular ultraviolet light

## HEALTH AND SAFETY

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*\*Consult the appropriate material safety data sheet for further information.\**

## IMPORTANT NOTICE

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All statements, recommendations and technical information contained in this document are accurate to the best knowledge of PurEpoxy. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. PurEpoxy assumes no legal responsibility for use upon these data. PurEpoxy assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.