

## PUR-WALL: WALL EPOXY SYSTEM

# TECHNICAL DATA SHEET

### DESCRIPTION

PUR-WALL is a solvent-free, two component epoxy coating system with orange peel appearance that can be light, medium or aggressive. It exhibits a very physical properties and unique finish.

### PRIMARY APPLICATIONS

- Wet and dry process areas.
- Commercial and institutional buildings.
- Health care facilities.
- Laboratories.
- Moderate mechanical and chemical resistance areas.
- Recreational centers.
- Showroom areas.

### ADVANTAGES

- Dense surface resistant to bacteria and moisture and easy to clean.
- May apply several layers onto itself.
- Contains no solvent (VOC compliant), allowing for interior application without harmful odors.
- Excellent adhesive properties, allowing application on many substrates.

### TECHNICAL DATA

<b>PACKAGING</b>	11.35 L (3 US gal.) and 56.7 L (15 US gal.)
<b>COLOR</b>	PART A: Upon request PART B: Light Amber MIX: Upon request
<b>RECOMMENDED THICKNESS</b>	Primer : 4-6 mils PUR-WALL : 8-12 mils
<b>SHELF LIFE</b>	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.
<b>MIX RATIO, BY VOLUME</b>	A:B = 2:1
<b>MIX RATIO, BY WEIGHT</b>	Clear: A:B = 100:48-50 Colors: 100:45-49
<b>POT LIFE 16 OZ (454 G)</b>	20-30 minutes @ 77°F (25°C)

## PROPERTIES

@ 73°F (23°C) AND 50% R.H.

<b>SOLIDS CONTENT, BY VOLUME</b>	100%
<b>SOLIDS CONTENT, BY WEIGHT</b>	100%
<b>DENSITY (KG/L)</b>	PART A: 1.01 (clear) 1.02-1.06 (colors) PART B: 0.96 (light) 1.00 (aggressive)
<b>THINNER RECOMMENDED</b>	SCT-0001
<b>OPEN TIME ON SUBSTRATE (MINUTES)</b>	50°F (10°C): 80 68°F (20°C): 50 86°F (30°C): 35
<b>WAITING TIME BETWEEN COATS (HOURS) MIN/MAX</b>	50°F (10°C): 30/72 68°F (20°C): 8/48 86°F (30°C): 6/24
<b>CURING TIMES - FOOT TRAFFIC</b>	50°F (10°C): 2 days 68°F (20°C): 1 day 86°F (30°C): 18 hours
<b>CURING TIMES - LIGHT TRAFFIC</b>	50°F (10°C): 4 days 68°F (20°C): 2 days 86°F (30°C): 2 days
<b>CURING TIMES - NORMAL TRAFFIC/ CHEMICAL EXPOSURE</b>	50°F (10°C): 10 days 68°F (20°C): 7 days 86°F (30°C): 5 days
<b>BOND STRENGTH, ASTM D4541</b>	>300 (substrate ruptures)
<b>WATER ABSORPTION (%), ASTM D570</b>	0.3
<b>HARDNESS (SHORE D), ASTM D2240</b>	75-85
<b>ABRASIVE RESISTANCE (CS17 / 1000 CYCLES/ 1000 G), ASTM D4060</b>	0.10 g loss
<b>VISCOSITY @ 77°F (25°C) (CPS) - CLEAR</b>	PART A: 1200 - 1400 PART B: 125000 - 150000 MIX: 10 mm roller PART B: 125000 - 150000 MIX: 20 mm roller PART B: 125000 - 150000 MIX: Honeycomb roller
<b>VISCOSITY @ 77°F (25°C) (CPS) - COLORS</b>	PART A: 2000 - 4000 PART B: 125000 - 150000 MIX: 10 mm roller PART B: 125000 - 150000 MIX: 20 mm roller PART B: 125000 - 150000 MIX: Honeycomb roller
<b>TRACTION RESISTANCE (PSI), ASTM D638</b>	1000
<b>COMPRESSION RESISTANCE (PSI), ASTM D695</b>	9000
<b>ELONGATION %, ASTM D638</b>	6.7 %

### IMPORTANT NOTES

- The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.

## SURFACE PREPARATION

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### Old Concrete

Concrete surface must be cleaned and mechanically prepared using shotblasting, sand blasting, and/or diamond grinding. All oils, sealers, curing agents, waxes and fats must be removed prior to product application. Do not apply onto wet substrates. Chloride, moisture, and pH levels should be checked prior to application.

### New Concrete

New concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch<sup>2</sup>) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch<sup>2</sup>). Shotblasting, sand blasting, and/or diamond grinding is required to remove the surface laitance that appears during the concrete finishing and curing process.

## MIXING

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Materials should be pre-conditioned to a minimum of 59°F (15°C) prior to use. Thoroughly mix each component separately using paddle mixers and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. Pour component B into component A using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 3 minutes 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.

## APPLICATION

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Apply with a 10mm, 20mm or honeycomb roller, depending on desired texture.

## CLEANING

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Clean all tools and materials with appropriate cleaner before the product cures. 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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- Minimum/Maximum temperature of substrate: 59°F / 86°F (15°C / 30°C)
- Maximum relative humidity during application and curing: 85%
- 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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In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult a physician. For respiratory irritation, move affected person to fresh air. Remove contaminated clothes and clean before reuse.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with product may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Work in well ventilated area.

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

## IMPORTANT NOTICE

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