

ZYCRETE PMC-50

Polymer-Modified Cement for Significant (1/4") Concrete Imperfections

Description: Three-component self-leveling floor coating system (base, curing agent and aggregate) designed for applications *where extreme moisture-mitigation is required and where the concrete exhibits significant imperfections up to 1/4" in depth*. Easy-to-use, self-priming, solvent-free low-odor application.

Areas of Usage: Designed to be used as a primer, midcoat, topcoat or seal coat for pigmented broadcast systems. Excellent for use in garages, basements, commercial kitchens, mechanical rooms, chemical processing plants, food and beverage facilities, coolers, pharmaceutical plants, waste water treatment plants, wash bays. **Not recommended for exterior use (although may be used in garages)**. Meets FDA, USDA, and CFIA standards.

Features / Advantages:	Moisture mitigating	Solvent free
	Extreme thermal stability	Reduced installation duration
	Superior impact resistance	Seamless, medium-build coat
	Self-priming	Low odor
	Zero VOCs	Easy application

Surface Preparation: Test for moisture and remove dust, laitance, grease, curing compounds, preparation bond-inhibiting impregnations, waxes and other contaminants. Prepare concrete via mechanical abrasion (e.g., diamond grinding) and follow with application of ZYCrete PMC-50.

Technical Data: *Note: Data / results may differ due to statistical variations, mixing methods and equipment, temperature, application methods, actual site conditions and curing conditions*

Packaging: Part A (Base): 11 lb container; Part B (Curing Agent): 11 lb container; Part C (Aggregate): 45 lb container

Mixing Ratio: The three ZYCrete PMC-50 components (Parts A, B and C) are mixed as a full kit only; 11 lb Part A, 11 lb Part B and 45 lb Part C. The end mixture must not be reduced with solvent

Application: Using a 1/2" v-notched squeegee, evenly spread the material to produce an even coat (no less than 50 sq ft). Use a hand trowel to move material around columns, edges and drains. If multiple pours are required, pour the next batch 2" into the wet edges and repeat the same process.

After the mixture is evenly spread, use a spiked roller and go over the entire area multiple times to allow for out-gassing. This step must complete within 10 minutes of mixing (at 70°F).

Average Dry Time at 77°F (25°C): Dry times vary depending upon weather conditions. **Dry Time (70°F; 21°C):** 6 - 8 hours; **Working Time (70°F, 21°C):** 25 minutes; **Light Foot Traffic (70°F; 21°C):** 24 hours; **Vehicle Traffic (70°F; 21°C):** 24 hours; **Full Cure at 72°F (22°C):** 24 hours.

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Technical Data (Con't):	<i>Data / results may differ due to statistical variations, mixing methods and equipment, temperature, application methods, actual site conditions and curing conditions</i>
Resistance To:	Moisture, stains, chemicals and abrasion (e.g., water, mold, mildew, salt, grease, oil spills, brake fluid, gasoline, hydraulic fluid, xylene, MEK, bases (sodium hydroxide), and acids (hydrochloric, sulphuric, acetic and nitric acids)
Reducing:	Do not reduce.
UV Stability:	Not light stable; sunlight and metal halide lighting will cause yellowing
% Solids (Wt):	High solids; 100%
VOC:	0 grams/liter
Hardness, Shore D:	80 D (ASTM D-2240)
Compressive Strength:	9000 psi (ASTM C-579)
Theoretical Coverage:	Minimum 50 sq ft at 1/4" thick
Tensile Strength:	1200 psi (ASTM C-307)
Flexural Strength:	2000 psi (ASTM C-580)
Adhesion to Concrete:	>400 psi (ASTM D-7234)
Impact Resistance:	>160 in/lb (ASTM D-2794)
Water Absorption:	>0.10% (ASTM C-413)
Abrasion Resistance:	80 mg loss (ASTM 4060; 1 K load, 1000 cycles, CS17 wheel)
Pot Life:	Pot Life = 15 – 20 minutes at 70°F (21°C).
Shelf Life:	12 months when Parts A, B and C are not combined, unopened and stored indoors at temperatures between 50°F (10°C) and 100°F (38°C).

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Mixing: ZYCrete PMC-50 is a three-component system: Part A base, Part B curing agent and Part C aggregate. Shake Part A thoroughly before opening. To mix, pour the contents of Part A into a 6-gallon metal mixing pail and add Part B. Mix for 30 seconds. Gradually add the Part C aggregate and mix at high speed for 2 minutes, scraping the sides of the mixing pail into the mix to obtain an evenly blended product. Check for clumps.

Application Procedure: **Application is only effective between 40°F and 90°F; do not apply above 90°F.** Keyways are required to control shrinkage and insure proper adhesion. Prior to application, keyway (1/4" wide x 1/8" deep) all free edges, wall perimeters, expansion joints, doorways, drains and terminations. ZYCrete PMC-50 is typically used as a primer, midcoat or color coat.

Handling and Storage: Store in a cool, dry, well ventilated area. Keep containers tightly closed.

• KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • INDUSTRIAL GRADE • HANDLING AND INSTALLATION MUST BE PERFORMED BY ECO-CORFLEX-CERTIFIED APPLICATORS ONLY •

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