



# TECHNICAL DATA

COATINGS SEALANTS MEMBRANES POLYUREAS EPOXIES PRIMERS

## RES-CRETE RC 700 CHEMICAL RESISTANT EPOXY



### PRODUCT DESCRIPTION:

**RES-CRETE RC 700** is a two-component, high solids, chemical resistant, epoxy floor coating. RES-CRETE RC 700 is designed for use as a floor coating where a tough, abrasion resistant, light reflective coating that exhibits good chemical resistance is required.

### MANUFACTURER:

PACIFIC POLYMERS INTERNATIONAL, INC.  
12271 Monarch Street  
Garden Grove, CA 92841 USA  
714/898-0025 FAX (714) 898-5687  
<http://www.pacpoly.com>

### BASIC USES:

RES-CRETE RC 700 is designed for interior applications where superior abrasion and chemical resistance is required to protect the concrete floor. Recommended areas of application include warehouse floors, decorative show rooms, chemical processing plants, metal finishing plants, steel mills, food processing plants, sewage and waste treatment plants, aircraft hangers and industrial plant floors. Offers excellent protection against hydrocarbon spillage and chemical attack by most mild to moderately strong industrial chemicals. RES-CRETE RC 700 can also be used as a sealer or glaze coat for added protection on our standard epoxy floor systems.

**COLORS:** Clear, Concrete Grey, Aluminum Grey.

**SIZES:** Packaged in 1.5 gallon, 15 gallon, and 165 gallon kits.

### MAINTENANCE:

If RES-CRETE RC 700 is damaged, and the surface has not been contaminated, it can be replaced by sanding or grinding that area and re-coating it with RES-CRETE RC 700.

### TECHNICAL SERVICES:

All of the latest updates to product data and specifications are available at the company website. Since product data and specifications change, it is the users responsibility to make certain the most current versions of product data and specifications are being used.

### INSTALLATION:

All surfaces must be clean, sound and properly prepared. Concrete surfaces should be acid-etched, scarified or bead-blasted to clean as recommended by the manufacturer. For the best results, prime the concrete surface with straight RES-CRETE RC 700.

Combine component "A" and "B", which have been factory proportioned during packaging, and mix thoroughly using a mechanical mixer for 2-3 minutes, by the clock. Pour the thoroughly mixed components immediately to the substrate since the product has very short potlife. Mixed compound must be applied with a flat squeegee and backroll with a 3/8" nap roller. Caution!!! Higher temperatures will significantly reduce the work life of the material.

**COVERAGE:** The recommended application rate of RES-CRETE RC 700 is two coats minimum, at a coverage rate of 150 square feet per gallon (3.68 m<sup>2</sup>/liter). An aggregate such as #20 mesh aluminum oxide may be broadcast into the topcoat (applied at 125 square feet per gallon; 3.06 m<sup>2</sup>/liter) and backrolled with a 3/8" nap roller, if an anti-skid finish is required.

### AVAILABILITY AND COST:

RES-CRETE RC 700 is supplied through building material dealers. Prices vary with quantity and packaging. Quotations are made upon request. These products are designed and manufactured to be installed by professional installers familiar with surface preparation and application procedures. All others should consult a professional installer; those who choose to install these products without professional assistance do so at their own risk.

### WARNINGS AND HAZARDS:

Before using the products, always refer to MSDS for important warnings and safety information. Use only in areas with adequate ventilation. Avoid breathing vapors. Keep away from heat and flame. Avoid contact with eyes and skin. In the event of skin contact, remove immediately and wash with warm, soapy water. Wear suitable eye protection. Always wash hands before eating.



PROPERTY	TEST METHOD	RESULTS
Potlife at 77°F (25°C)( 200 gram mass)		25 ± 5 minutes
Initial Set Time (for light traffic)		8-10 hours at 77°F (25°C)
Tackfree Time at 77°F (25°C)		6-7 hours
Cure Time at 77°F (25°C)		48 hours
Mixing Ratio (A/B) by volume		2:1
Solids Content (by volume)		98%
Hardness (Shore D)	ASTM D-2240	80
Viscosity at 77°F (25°C)	Brookfield Viscometer	
A-component		25 poise
B-component		5 poise
V.O.C.	ASTM D-2369	40 gr/liter
Tensile Strength	ASTM D-638	9,000 PSI
Elongation	ASTM D-638	3%
Flexural Strength	ASTM D-790	13,000 PSI
Flexural Modulus	ASTM D-790	489,000 PSI
Compressive Strength	ASTM D-695	14,500 PSI
Adhesion to concrete	ASTM C-882	>300 PSI (concrete failure)
Abrasion Resistance	ASTM D-4060	<1 mg loss
(CS17 wheel, 1000 gram weight, 1000 cycles)		
Shelf Life		1 year
(when stored indoors in cool and dry location at 77°F (25°C) in unopened containers)		

## PRODUCT WARRANTY:

Satisfactory results depend not only upon quality products but also upon factors beyond our control; methods of application and site conditions are examples of such factors and can affect product performance. This warranty consequently extends only to products installed in strict accordance with the manufacturer's specifications. It is the users responsibility to satisfy himself, by his own information and tests, of the suitability of the product for his own intended use; user assumes all risk and liability resulting from his use of the product. The substrate to which the product is applied must be sound structurally and otherwise. Structural or substrate failures or imperfections resulting in damage to or failure of the product are not covered by this warranty. Since the use of the product is beyond the control of the manufacturer, the manufacturer assumes no liability for misapplication and misuse of the product. This warranty does not cover consequential damages, nor does it cover the labor attendant to replacing product in the event of a product failure. The warranty only extends to replacement of the product itself. All products proven to be defective in manufacture will be replaced at no charge. Since the use of these products is beyond our control we cannot assume any risk or liability for results obtained, nor can we accept damage in excess of the purchase price of these products.