

PRODUCT DESCRIPTION

Res-Tek RT-05 LM Polymer Concrete is a 2-component, 100% reactive, system that is methyl-methacrylate (MMA) based. The system consists of RT-05 LM Polymer Concrete Liquid and RT-05 Polymer Concrete Powder.

The RT-05 LM system can be used for shallow and medium depth patches, underlayment, grouting, and spall repair. The system can be filled with graded aggregate and used for deep repair of concrete slabs or placed in forms like conventional (cementitious) concrete. The Res-Tek RT-05 LM system is designed with a combination of high tensile strength and low compressive modulus which makes it appropriate for both indoor and outdoor applications.

SYSTEM PROPERTIES

- Chemically bonds to other Res-Tek system components.
- UV stable.
- Cures in one hour.
- Cures at temperatures ranging from -15°F - 100°F.
- 100% reactive.
- Seamless repairability.

RT-05 LM PROPERTIES

Viscosity (ASTM D2196, cPs): 3

Density (ASTM D1475, lbs/gal.): 7.78

Shelf Life: 1 year (minimum)

DOT Classification: Flammable Liquid, Class 3, UN 1866

PHYSICAL PROPERTIES (SYSTEM)

Mix Ratio: Refer to Polymer Concrete Dosing Chart

Tensile Strength (ASTM C307, psi): 1,100

Tensile Modulus (ASTM C307, psi): 28,000

Compressive Strength (ASTM C579, psi): 6,500

Flexural Strength (ASTM D790, psi): 2,200

Coefficient of Thermal Expansion (ASTM C531, in./in./ °F): 18

Water Absorption (ASTM D570, wt.%): .02

Pot Life: 15-20 minutes

Cure Time: 45-80 minutes

SURFACE PREPARATION

The Res-Tek RT-05 LM Polymer Concrete system requires a clean, dry substrate free of oils, grease, wax, solvents, curing membranes, and any other contaminants. Concrete should be mechanically prepared to open surface and to remove fines, laitance, and unsound concrete. Surface must be primed using Res-Tek MAC-710 Primer. Before proceeding with installation of a Res-Tek coating or flooring system, RT-05 LM Polymer Concrete should be re-primed.

RES-TEK INC.

110 Riverside Drive
Cartersville, Georgia 30120
P. 888.ResTek1 (888.737.8351)
F. 770.427.4037



RT-05 LM

Polymer Concrete Powder & Liquid

APPLICATION INFORMATION

Refer to the Polymer Concrete Extension Chart to measure the appropriate amount of RT-05 LM Polymer Concrete Liquid into clean, dry mixing bucket.

Using a heavy duty ½" drill or paddle mixer equipped with a Spiral Mixing Blade, add one full 31 lb. bag of RT-05 Polymer Concrete Powder component while under agitation. Mix until well blended, approx 30 – 60 seconds. Place immediately and finish with a flat steel trowel.

This product must be extended with washed and dried pea gravel for application depths greater than ¼". Refer to the Res-Tek RT-05 Polymer Concrete Extension Chart for extension rates and product yield.

Cured RT-05 Polymer Concrete must be re-primed prior to coating with additional Res-Tek MMA-based flooring products.

STANDARD PACKAGING

Res-Tek RT-05 LM Polymer Concrete is a 2-component system. The liquid portion (RT-05 LM Polymer Concrete Liquid) is packaged in 38 lb pails and 400 lb drums. The powder portion (RT-05 Polymer Concrete Powder) is packaged in 31 lb bags.

RT-05 Polymer Concrete Powder contains the RT-BPO-50 (Powder Hardener) necessary to catalyze the system. There is no need to add additional RT-BPO-50 (Powder Hardener).

This product is sold by weight, not by volume. Product properties require that containers provided are not completely filled. See price sheet for actual container weight and volume.

STORAGE CONDITIONS

Store material in a cool and dry place out of direct sunlight. Do not store near open flame or ignition source. Read and understand all product labels and SDS sheets prior to use.

CAUTION

Res-Tek RT-05 LM Polymer Concrete Liquid is a flammable liquid in its uncured state (as provided). All sources of ignition should be removed from the work area before handling this product. No smoking, open flames, or sparks should be permitted in and around the work area. Workers should wear protective clothing including goggles and impermeable gloves. If allowable exposure limits are exceeded, organic vapor respirators should be worn. All on-site personnel should become familiar with the SDS sheet and hazard section of application binder in order to increase hazards awareness.

WARRANTY

Res-Tek Inc. warrants that materials shipped to buyers are free of any defects in material or workmanship according to Res-Tek's published data if used in accordance with Res-Tek's specified application procedure. Res-Tek Inc. shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended, and in accordance with Res-Tek's application guidelines. Res-Tek Inc. has no responsibility for application and processing of products.

RES-TEK INC.

110 Riverside Drive
Cartersville, Georgia 30120
P. 888.ResTek1 (888.737.8351)
F. 770.427.4037

