

### PRODUCT DESCRIPTION

Res-Tek RT-05 LTF is a 2-component, 100% reactive, methyl-methacrylate (MMA) based polymer concrete, specifically designed to cure at temperatures between -15°F and 28°F. The system consists of RT-05 LTF polymer concrete liquid and RT-05 polymer concrete powder. The RT-05 LTF system can be used for shallow and medium depth patches, underlayment, 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 LTF system is appropriate for both indoor and outdoor applications.

### SYSTEM PROPERTIES

- Excellent bonding capabilities — achieves a chemical bond to other Res-Tek system components
- UV resistant for indoor or outdoor application
- Cures fast
- Cures at low temperatures (-15°F – 28°F)
- 100% reactive
- Seamless repairability — achieves a chemical bond with itself and with other Res-Tek system components

### PHYSICAL PROPERTIES (SYSTEM)

**Minimum Application Thickness:** ¼” – ½”

**Compressive Strength (psi):**

ASTM C579      6,500

**Coefficient of Thermal Expansion:**

**(in./in. / degrees F)x10<sup>-6</sup>**      ASTM C531      18

**Tensile Strength (psi):**

ASTM C307      1,100

**Tensile Modulus (psi):**

ASTM C307      28,000

**Flexural Strength (psi):**

ASTM D790      2,200

**Water Absorption (% / 24 hrs.):**

ASTM D570      .02

**Shelf Life:** 6 months

Temperature	Approximate Cure Time @ ½”
20°F	1 hour
0°F	1.5 hours
-10°F	2.0 hours
-15°F	3.0 hours

**Note:** RT-05 LTF must never be used at temperatures above 28°F.

**You must add 4 volume ounces of RT-BPO Powder Hardener to each unit of RT-05 LTF.**

**RES-TEK INC.**

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# RT-05 LTF

## Low Temperature Formula Polymer Concrete

### SURFACE PREPARATION

The Res-Tek RT-05 LTF 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 and RT-R Component.

### MIXING INSTRUCTIONS

Use clean and dry mixing buckets. All components should be acclimated to the application temperature before mixing and installation. Refer to the RT-05 Polymer Concrete Extension Chart for instructions on extending the mix for the appropriate repair depth. To extend mix, clean and dried pea gravel must be used. Measure 56-64 volume ounces of RT-05 LTF resin (56 volume ounces for a neat mortar and up to 64 volume ounces for fully extended mortar). Add 4 volume ounces of RT-BPO Powder Hardener to each mix. With a mixer using a spiral mixing blade running, slowly add RT-05 Powder Component and any additional pea gravel required. Mix for 60 seconds or until mixture is evenly dispersed and place the Polymer Concrete with a steel trowel, working quickly and diligently. Polymer Concrete must be fully cured and re-primed prior to the application of other Res-Tek materials.

### STANDARD PACKAGING

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

### 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 LTF 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.

- 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.

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