

## PRODUCT DESCRIPTION

Res-Tek RT-815 Flexible Resin is a reactive, acrylic resin based on methyl methacrylate (MMA). Res-Tek RT-815 Flexible Resin can be applied neat or with pigment and thixotrope for filling of cracks, expansion, and control joints where movement is anticipated. RT-815 is designed to be used in conjunction with all Res-Tek flooring systems. In all cases, the product exhibits high strength and high elasticity; properties essential for bridging cracks and expansion joints in concrete substrates. Res-Tek RT-815 Flexible Resin is 100% reactive and is fast-curing. The use of fillers with RT-815 will reduce its elastic properties; therefore, the product should be used neat whenever possible. Res-Tek RT-815 Flexible Resin can only be applied over substrates that have been properly prepared and primed according to manufacturers' recommendations using Res-Tek RT-710 Primer.

## TYPICAL USES

Res-Tek RT-815 Flexible Resin is most often applied as part of a self-leveling (SL) system and broadcast with colored quartz (CQ) or colored flake (CF). These systems may be employed in a wide variety of areas. They handle environments where superior impact resistance, wear characteristics, durability, and flexibility are required parts of the flooring system. Typical industries that Res-Tek Flexible Resin SL, CQ, and CF may be used in are food processing, pulp and paper processing, chemical laboratories, grocery stores, coolers, and freezers.

## PHYSICAL CHARACTERISTICS

**Viscosity:** 180-190 cps

**Density:** 8.34 lbs / gallon

**Tensile Strength:** 500 psi

**Elongation @ Break:** 180%

**Pot Life:** 15-20 minutes

**Cure Time:** 35-60 minutes

**Shelf Life:** Minimum 1 year from ship date (unopened)

**DOT Classification:** Flammable Liquid, Class 3, UN 1866

## PROPERTIES

- Excellent bonding capabilities – chemically bonds to other Res-Tek system components.
- UV resistant for indoor or outdoor application.
- Cures fast – under an hour.
- Cures at a wide range of temperatures. (even below freezing)
- 100% reactive – VOC compliant.
- Seamless repairability – achieves a chemical bond with itself and with other Res-Tek system components.

## APPLICATION OF MATERIALS

Substrate must be primed using Res-Tek RT-710 Primer at a rate of 80-125 sq. ft. per gallon (depending on substrate surface profile). RT-815 resin should be catalyzed according to manufacturer's recommendations and poured into previously primed joints and cracks. Excess material can be troweled smooth in the event RT-815 will be left exposed. The surface may be broadcast using quartz, color flakes, or sealed using RT-925 topcoat.

**RES-TEK INC.**

**110 Riverside Drive  
Cartersville, Georgia 30120**

P. 888.ResTek-1 (888.737.8351)

F. 770.427.4037



# RT-815

## Flexible Resin

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### SURFACE PREPARATION

To provide a lasting bond, the substrate must be thoroughly cleaned of grease, oils, curing membranes, wax, and any other contaminants. The substrate surface must be dry and free of laitance and unsound concrete. Floor surfaces receiving Res-Tek primers should be thoroughly cleaned and prepared by shot blasting or other approved mechanical means.

### THE BOND TEST

A bond test should be conducted to determine the adequacy of the surface preparation and the bond to substrate before proceeding with the application of the primer to the entire area. The bond of the primer to the substrate should be greater than the tensile strength of the substrate itself (adhesive bond of Res-Tek System to concrete should be stronger than cohesive bond of concrete itself); therefore, there should be fractured aggregate along the entire patty. If only a fine laitance or small amount of concrete is attached, additional mechanical preparation is required. The exact procedure for performing the bond test can be found in the sheet titled "The Bond Test," provided by Res-Tek Inc.

### STANDARD PACKAGING

Res-Tek Flexible Resins are packaged in 38 lb pails and 400 lb drums.\* Hardener powder is available in 3 lb containers and 55 lb boxes. Res-Tek Self-Leveling Filler is available in 40 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 MSDS sheet prior to use.

### CAUTION

Res-Tek RT-815 Flexible Resin and all Res-Tek Resins are flammable liquids in their 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 MSD 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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