

PRODUCT DESCRIPTION

Res-Tek RT-805 Overlay Resin is a reactive, acrylic resin based on methyl methacrylate (MMA). Res-Tek RT-805 Overlay Resin can be applied neat or as part of a self-leveling or self-leveling broadcast system. In all cases, the product exhibits high strength, medium viscosity, and excellent resiliency; properties essential for the effective protection of concrete substrates. Res-Tek RT-805 Overlay Resin is 100% reactive and is fast-curing. Res-Tek RT-805 Overlay Resin is combined with Res-Tek's proprietary self-leveling filler (Res-Tek Self-Leveling Filler) for applications requiring a self-leveling system and can be broadcast with colored quartz aggregates or colored flakes to create interesting architectural effects. System thickness typically ranges from 1/16" to 1/4". Res-Tek RT-805 Overlay 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-805 Overlay 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 RT-805 Overlay Resin SL, CQ, and CF may be used in are food processing, pulp and paper processing, chemical industry, laboratories, grocery stores, coolers, and freezers.

PHYSICAL CHARACTERISTICS

Viscosity: 165-185 cps

Density: 8.20 lbs / gallon

Tensile Strength: 1,550 psi (unfilled)

Elongation: 25%-30% (unfilled)

Compressive Strength: 6,500 psi (filled)

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 — achieves a chemical bond to other Res-Tek system components.
- Medium viscosity makes for easy application with a roller or brush.
- 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.
- On-site bond test indicates whether substrate preparation is adequate before system application.
- Seamless repairability — achieves a chemical bond with itself and with other Res-Tek system components.

RES-TEK INC.

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RT-805 Overlay Resin

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 and porosity). The standard mix of Res-Tek RT-805 Overlay Resin for an SL, CQ, or CF System is 1.75 gallons of resin to 40 lbs of Res-Tek Self-Leveling Filler, optional pigment, and hardener powder as required by temperature. This will yield approximately 36 sq. ft. @ 1 \ 8" thickness. Trowel or gauge rake to desired thickness and use a porcupine roller to release any trapped air and to assist in the leveling of material. Depending on the application, colored flakes, colored quartz, or aluminum oxide may be broadcast into the fresh material. When cured, the system must be coated using one or two coats of clear or pigmented Res-Tek RT-925 Sealer.

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 must 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.

STANDARD PACKAGING

Res-Tek Overlay 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-805 Overlay Resin 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 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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