

## PRODUCT DESCRIPTION

Res-Tek RT-710 Primer is a reactive, acrylic resin based on methyl methacrylate (MMA). The product exhibits high strength, low viscosity, and the ability to penetrate and reinforce concrete substrates. RT-710 can also be used to prime wood substrates. Ceramic tile and metal substrates require the use of a bond enhancing additive. Res-Tek RT-710 Primer is 100% reactive and is fast-curing. Applying Res-Tek RT-710 Primer to properly prepared concrete is the first step to the installation of any Res-Tek acrylic flooring system.

## TYPICAL USES

Res-Tek RT-710 Primer is designed to achieve a bond to concrete substrates which exceeds the cohesive strength of the concrete itself. This product property can be utilized to seal and reinforce concrete surfaces that tend to dust when abraded by pedestrian and wheeled traffic. More often Res-Tek RT-710 Primer is used to anchor a Res-Tek acrylic flooring system to a concrete substrate with a greater bond strength than bonding the flooring system directly to the concrete.

## PHYSICAL CHARACTERISTICS

**Viscosity:** 12-15 cps

**Density:** 8.10 lbs / gallon

**Tensile Strength:** 3,700 psi

**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 concrete substrate and to other Res-Tek system components.
- Low viscosity — penetrates and helps to reinforce concrete substrates.
- 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 reparability — achieves a chemical bond with itself and with other Res-Tek system components.

## APPLICATION OF MATERIALS

Res-Tek RT-710 Primer should be applied over properly prepared concrete substrates at a rate of ~100 sq. ft. per gallon (depending on substrate surface profile and porosity, coverage rate may vary between 80 and 120 sq. ft. / gallon). Res-Tek RT-710 Primer is always applied neat (without fillers or pigments). The amount of hardener powder used is dependant on temperature, and the installer must follow the guidelines provided in the hardener powder dosing chart provided. Res-Tek RT-710 Primer should be applied using a roller, brush, or notched squeegee at a rate that allows for penetration of the concrete substrate but still maintains a continuous coating on the substrate surface. In the event of extreme porosity that leads to the primer being absorbed by the substrate, a second coat of Res-Tek RT-710 Primer is required. The priming procedure must be repeated until a continuous coat of primer cures on the surface of the substrate. A small amount of clean, dry sand may be gently broadcast into the freshly applied primer (not to exceed 1 lb sand for every 50 sq. ft. of primed surface) in order to provide the installer with a less slippery surface to walk on during the subsequent installation processes.

**RES-TEK INC.**

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# RT-710 Primer

## 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 RT-710 Primer 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. 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 RT-710 Primer is 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 MSD sheets prior to use.

## CAUTION

Res-Tek RT-710 Primer 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 hazard 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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