

## Semi-Flexible Overlay Resin

### PRODUCT DESCRIPTION

MAC-Guard<sup>™</sup> MAC-850 Semi-Flexible Overlay Resin is a 100% reactive, acrylic resin based on methyl methacrylate (MMA) that cures in one hour. MAC-850 is used as a body coat in a MAC-Guard acrylic flooring system where greater flexibility is required.

### TYPICAL USES

MAC-Guard MAC-850 Semi-Flexible Overlay Resin is most often applied as part of a self-leveling system. MAC-850 can be broadcast with colored quartz or colored flake. Self-leveling systems provide protection and longevity in heavy industrial environments where superior wear characteristics and durability are necessary.

### PHYSICAL CHARACTERISTICS

**Viscosity (ASTM D2196, cPs):** 170-185

**Density (ASTM D1475) lbs/gal.):** 8.34

**Tensile Strength (ASTM D638, psi):** 950

**Water Absorption (ASTM):** .04

**Elongation at Break (ASTM D638, %):** 80-90%

**Pot Life:** 15-20 minutes

**Cure Time:** 45-60 minutes

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

**DOT Classification:** Flammable Liquid, Class 3,  
UN1866

### PROPERTIES

- Chemically bonds to other MAC-Guard system components.
- UV resistant.
- Cures in one hour.
- Cures at temperatures ranging from -15°F -100°F.
- 100% reactive — VOC compliant.
- Seamless repairability.
- Vapor impermeable

### APPLICATION OF MATERIALS

Typically MAC-850 is applied over MAC-710 Primer, but can also be applied over other MAC-Guard flexible membrane resins. In a self-leveling system, MAC-850 is combined with Res-Tek self-leveling filler and pigment to yield a coverage rate of approximately 36-40 sq. ft. per gallon @ 1/8" thickness when applied with a gauge rake. Depending on application and desired finish, colored flakes, colored quartz, or other media may be broadcast into the fresh material.

It is necessary to follow the mix ratios found in the MAC-Guard Dosing Chart.

### SURFACE PREPARATION

No additional surface preparation is required if applied immediately following the application of the previous coat. If following a different application schedule, please contact your Res-Tek representative.

**RES-TEK INC.**

110 Riverside Drive  
Cartersville, Georgia 30120  
P. 888.ResTek-1 (888.737.8351)  
F. 770.427.4037



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## STANDARD PACKAGING

MAC-Guard MAC-850 Semi-Flexible Overlay Resin is packaged in 38 lb pails and 400 lb drums. Powder Hardener (RT-BPO-50) is available in 10 lb and 55 lb boxes.

These products are 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.

## CAUTION

MAC-Guard MAC-850 Semi-Flexible 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 SDS and hazard section of the 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.

## 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 sheet prior to use.

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