

PRODUCT DESCRIPTION

MAC-Guard[™] MAC-800 Overlay Resin is a 100% reactive, acrylic resin based on methyl-methacrylate (MMA) that cures in one hour. MAC-800 is designed as the base resin to create body coats in MAC-Guard acrylic flooring systems. System thickness typically ranges from 1/16" to 1/4" depending on the application technique and performance requirements of the system.

TYPICAL USES

MAC-Guard MAC-800 Overlay Resin is most often applied as part of a self-leveling system, but can also be used as part of a roll-on system. In either case, MAC-800 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. Roll-on systems may be used in a commercial or light industrial environment where resistance to impact and compressive strength are not required.

For applications requiring an integral cove base, MAC-800 can be mixed with fillers in a variety of combinations to meet system requirements or special needs.

PHYSICAL CHARACTERISTICS

Viscosity (ASTM D2196, cPs): 175-185

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

Tensile Strength (ASTM D638, psi): 1,950

Tensile Modulus (ASTM D638, psi): 230,000

Compressive Strength (ASTM C109, psi): 8,000 (filled)

Flexural Strength (ASTM D790, psi): 3,500

Coefficient of Thermal Expansion (ASTM D696, in./in./ °F): 0.000019

Water Absorption (ASTM D570, wt.%): .04

Electrical Resistivity (ASTM D257):
Volume Resistance (ohm-cm): 10¹⁴

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, UN 1866

PROPERTIES

- Chemically bonds to other MAC-Guard system components.
- Medium viscosity — versatile for use in a variety of applications.
- UV stable.
- Cures in one hour.
- Cures at temperatures ranging from -15°F - 100°F.
- 100% reactive — VOC compliant.
- Seamless repairability.

RES-TEK INC.

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MAC-Guard™ MAC-800 Overlay Resin

APPLICATION OF MATERIALS

Typically MAC-800 is applied over MAC-710 Primer, but can also be applied over other MAC-Guard flexible membrane resins. In a self-leveling system, MAC-800 is combined with Res-Tek self-leveling filler and pigment to yield a coverage rate of approximately 36-40 sq. ft. @ 1/8" thickness when applied with a gauge rake. In a roll-on system, MAC-800 is applied neat or with added pigment. Coverage rate is 60-80 sq. ft./gal. using a roller or notched squeegee.

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

These are the most common applications, but a variety of combinations are available based on system requirements. Depending on application and desired finish, colored flakes, colored quartz, or other media may be broadcast into the fresh material.

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.

STANDARD PACKAGING

MAC-Guard MAC-800 Overlay Resin is packaged in 38 lb pails, and 400 lb drums. Powder Hardener (RT-BPO-50) is available in 10 lb containers 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.

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.

CAUTION

MAC-Guard MAC-800 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 expo-sure limits are exceeded, organic vapor respirators should be worn. All on-site personnel should become familiar with the SDS 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.

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