



# KEY MMA ELASTOMERIC DECKING

## DESCRIPTION

**KEY MMA ELASTOMERIC DECKING SYSTEM** is a 100% reactive, rapidly curing methyl methacrylate (MMA) decking system. This system is composed of 100% MMA elastomeric basecoat resins, decorative colored quartz aggregate or silica aggregate, and clear or pigmented MMA top coats. Installed thickness is 3/16" to 1/4" depending on intended service and project requirements.

## KEY ADVANTAGES

- Elastomeric for Absorbing Crack Movement and Substrate Movement
- VOC Compliant, Meets USGBC LEED Guidelines
- High Impact and Wear Resistance
- Textured Finish is Slip Resistant
- Cures Over Wide Temperature Range down to -20°F
- Good Chemical Resistance
- Solid Color and Decorative Multi-Color Finishes Available

## KEY CONSIDERATIONS

- Concrete must be dry, free of dirt, waxes, curing agents and other foreign materials.
- Do not store outside in direct sunlight, storage temperature must be < 80°F.
- On or below grade installation must have an efficient vapor barrier under the slab (minimum 10-15 mil).
- Moisture vapor transmission must be less than 3 pounds per ASTM-F-1869 and less than 80% RH per ASTM F-2170. Excessive moisture requires a moisture vapor control system, consult with Key Resin.
- Specific sealers must be selected to meet expected service conditions. Consult with Key Resin.

## TYPICAL USES

- Balconies
- Pedestrian Walkways, Decks
- Vehicular Traffic Decks, Ramps
- Pool Decks
- Sports Floors
- Roof Decks

## COLORS

**KEY MMA ELASTOMERIC DECKING SYSTEM** is available in a variety of standard blends of colored quartz or pigmented solid colors. Colors will not fade or wear thin.

## SURFACE PREPARATION

Surface preparation is the most critical portion of any successful resinous flooring system. All substrates must be properly prepared as outlined in **Key Resin Company's Technical Bulletin #1**. In addition, **All Key MMA Flooring Systems require a minimum surface profile of CSP 4-5**, as outlined in ICRI Guideline 310.2-1997, formerly named G-03732 (available from [www.ICRI.org](http://www.ICRI.org)). Work must be performed by trained or experienced contractors or maintenance personnel.

## MIXING AND INSTALLATION

**KEY MMA ELASTOMERIC DECKING SYSTEM** is composed of a primer, elastomeric basecoats broadcasted with decorative quartz or silica, and clear or pigmented top coats.

**KEY 9112 MMA** primer resin, when properly catalyzed, is spread with a notched squeegee and back rolled at approximately 100 ft<sup>2</sup>/gallon, followed with a light aggregate broadcast. Substrates that are very porous may require an additional primer application, it is important to achieve a resin-rich layer for proper curing. Refer to **KEY 9112 MMA** product data sheet for further details. The elastomeric basecoat is composed of **KEY 9332 MMA** elastomeric resin mixed with filler powder, followed with a light aggregate broadcast using 20 mesh silica sand or 20 mesh colored quartz. Scrim cloth reinforcement may be used where significant substrate movement is expected. A second elastomeric basecoat of **KEY 9332 MMA** resin and filler powder may be necessary depending on project requirements, followed with a full aggregate broadcast using 20 mesh silica sand or 20 mesh colored quartz. The elastomeric basecoat is top coated with **KEY 9526 MMA** or **KEY 9528 MMA** at a spread rate of 65-80 ft<sup>2</sup>/gallon for the first top coat. A second top coat is applied at 80-100 ft<sup>2</sup>/gallon depending on desired finish texture. Consult with Key Resin for recommended topcoat.

The approximate amount of **KEY MMA 9000 HARDENER** needed for each resin can be determined by using the **KEY MMA 9000 HARDENER Mixing Chart** or refer to the individual resin product data sheet.

The **KEY MMA ELASTOMERIC DECKING** system will cure in approximately 60 minutes after the last application, depending on temperature and hardener quantity used.

## TECHNICAL DATA

VOC	Less than 100 g/L
Pot Life @ 70°F, per coat	Approximately 20 min.
Cure Rate @ 70°F, per coat	Approximately 60 min.
Recoat Time	Approximately 60 min.
Chemical Resistance	See Guide*

\*Refer to the **Key Resin MMA Chemical Resistance Guide** for information on resistance to specific chemicals.

Refer to individual resin product data sheets for additional technical data.

## TECHNICAL SERVICE

**Key Resin Company** and **KRC Associates, Inc.** provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **Key Resin Sales/Technical Representatives** are available to assist you. Telephone (888)943-4532 or visit [www.keyresin.com](http://www.keyresin.com).

## AVAILABILITY

**Key Resins** are available throughout the United States, Canada, Mexico and a number of other countries. Contact the **Key Representative** in your area. Telephone (888)943-4532 or visit [www.keyresin.com](http://www.keyresin.com).

## MAINTENANCE

**KEY MMA ELASTOMERIC DECKING SYSTEM** is considered to be a low maintenance flooring solution. Certain textures and environments, however, require specific cleaning with bristled brushes. Due to the thermoplastic character of MMA resins, black marks can occur from fork lifts and tires skidding.

## STORAGE

Store in a cool and dry place, below 80°F, out of direct sunlight. Do not store near open flame or food. Shelf life is 6 months in the original unopened containers. After extended storage: Additives and fillers can separate with storage, materials should be inspected for any visible signs of settlement, polymerization, or paraffin coagulation (clumps, strands). Thoroughly mix pails or drums (use a drum mixer, do not rely on rolling drum on floor) and pour into new containers to inspect resin before use.

## HELPFUL HINTS

Adequate cross ventilation should be provided. Read, understand and follow MSDS and application instructions of the flooring systems prior to use. Use only as directed. If substrate and/or material temperature are above 90°F, **DO NOT APPLY MATERIAL.**

## WARRANTY

Information regarding Key Resin brand MMA resins and systems is based upon extensive research and experience in the field of applied engineering by the manufacturer **Plasti-Chemie GMBH International**. By making such information available, Key Resin does not thereby assume any liability beyond express terms of our standard limited material warranty. Key Resin does not warrant the accuracy or completeness of any such information, whether conveyed orally or in writing, but to the best of our knowledge believe it to be accurate. We reserve the right at any time and without notice to update or improve our products and process and our information concerning the same. By Key Resin making this information available does not relieve the purchaser or user from his obligation to verify the suitability of our products and processes for the intended use or application. The purchaser and user likewise have the responsibility to ensure that the purchase, use or application does not infringe upon patent rights or other rights of third parties.

**Key Resin Company ("Key")** warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of **Key**. If any product fails to meet this warranty, the liability of **Key** will be limited to replacement of any non-conforming material if notice of such non-conformity is given to **Key** within one (1) year of delivery of materials. **Key** may in its discretion refund the price received by **Key** in lieu of replacing the material. No customer, distributor, or representative of **Key** is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of **Key**. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. **Key** reserves the right to inspect the non-conforming material prior to replacement. **EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. KEY'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND KEY SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**