



KEY 9332 FLEXIBLE MMA

DESCRIPTION

Key 9332 MMA is a higher viscosity, 100% reactive, flexible methyl methacrylate resin used as a crack isolation or waterproofing membrane under **Key MMA Systems**. **Key 9332** resists cracking caused by horizontal substrate movement providing a crack resistant, resilient surface. **Key 9332** offers stress relieving properties for floor slabs showing movement and/or vibration. Excellent for use as an intermediate layer in loading docks and ramps, equipment rooms, large animal rooms, activity rooms, automotive and tooling industry, freezers, coolers, bridge decks, pedestrian walkways, parking garages, ship decks, joint repair, food industry, dairies, beverage industry, and numerous other applications.

KEY ADVANTAGES

- Crack resistant flexibility.
- Elongation of 300%.
- Reduces noise created by mechanical vibrations.
- May be applied in thickness of 1/8"-1/4".

KEY CONSIDERATIONS

- For improved intermediate adhesion, broadcast **Key 9332** with 16-30 mesh silica sand.
- 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 lbs per ASTM-F-1869 and less than 80% RH per ASTM F-2170.

COMPOSITION

Key 9332 MMA is a 100% reactive methyl methacrylate resin.

COLOR SELECTION

Key 9332 is supplied clear (slight haze). Color packs are available for selected colors. Color pack mix ratio is 1 quart pigment per 5 gallons resin. See **Key Resin MMA** color card.

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**. Work must be performed by trained or experienced contractors or maintenance personnel.

MIXING AND INSTALLATION

Key 9332 is typically used in conjunction with fillers and fine aggregate and requires the addition of Key MMA hardener to start the hardening process. The amount of hardener must be adjusted to the respective surface temperature (see table). At temperatures below 40°F, Accelerator 101 must be used in addition to the amount of hardener used at the 40°F level (about ½ oz by vol./gal. @ 32°F up to 2.0 oz by vol./gal. @ -20°F).

Typical Slurry/Topping Formula

Material	Weight	Volume
Key 9332 MMA	8.4 lbs.	1.0 gal.
Key Self Leveling Filler	20 lbs.	1.8 gal.
Silica Sand 30-50 mesh	11.0 lbs.	110 Vol. oz. (0.85 gal.)
Pigment Pack	N/A	6.4 Vol. oz.
Key MMA Hardener	Follow chart	Follow Chart

Add hardener to the clear resin and blend; add dry powders and mix thoroughly with propeller mixer. Blend pigment and mix for 1-2 minutes until no lumps are present. Apply mix to the primed surface using a gauge rake or notched trowel. The above mixture will yield approximately 1.8 gal. of slurry. Coverage is:

1/8 inch	22-23 sq ft
3/16 inch	15.0 sq ft
1/4 inch	11.3 sq ft

The fresh slurry coat must be broadcast to excess with a wearing coarse of aggregate. Rates will vary from 0.25-1.25#/sq ft depending on type and size of aggregate. It is recommended to broadcast 16-30 mesh aggregate. Do not use broadcast aggregate smaller than 30 mesh. Aggregate may be natural or colored quartz, sand, aluminum oxide, emery, etc.

Key 9332 MMA systems must be top coated or sealed with **Key 9418** or **Key 9528**. These can be either pigmented or non-pigmented.

Pot Life and Hardening/Temperature

Temp. (°F) of Resin, Air & Floor Surface	Hardener by Wt. (grams) Based on Wt. of 9332 Resin	Hardener by Vol. (oz.) Based on Gallon of 9332 Resin	Pot Life (min.)	Hardening Time (min.)
+41	170	8.0	Approx. 25	Approx. 70
+50	150	7.0	Approx. 25	Approx. 65
+68	2.0	5.0	Approx. 20	Approx. 50
+70	1.0	5.0	Approx. 20	Approx. 45

Below 41°F Accelerator 101 must be used in addition to the amount of hardener used at the 41°F level (about 1/2 oz by vol./gal. @ 32°F up to 2.0 oz by vol./gal. @ -20°F).

PHYSICAL PROPERTIES

Percent Solids	100%
Working Life, 50° - 70°	20-25 min.
Recoat Time	55-75 Min.
Viscosity, cps	1,100-1,200 cps
Weight per Gallon	8.3 lbs
Compressive Strength	2,500-3,000 psi
Tensile Strength	75-80 psi
Elongation at Break	300%

CLEAN-UP

Clean tools and equipment with lacquer thinner or MEK. Consult Material Safety Data Sheet for safety and health precautions.

AVAILABILITY

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

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.

HELPFUL HINTS

Additives and fillers can separate with storage. Stir thoroughly before using or removing from drum.

Adequate cross ventilation should be provided. Good ventilation during the processing ensures a good cross linking and hardening. Read, understand and follow Material Safety Data Sheets and Application Instructions prior to use.

Use only as directed. If substrate and/or material temperature is above 90°F, DO NOT apply material.

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 REPRESENTATIVES** are available to assist you. CALL (888) 943-4532 or visit www.keyresin.com.

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.

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