KEY RESIN COMPANY

INTRODUCTION TO KEY RESIN MMA (METHYL METHACRYLATE) FLOOR SYSTEMS

The requirements for today's flooring systems, both decorative and industrial are more stringent than ever. Traditional resin floor systems that require long shutdown times for installation and curing schedules of several days until full use are becoming less acceptable. These systems are now being replaced with faster curing systems without sacrificing the excellent performance properties of the traditional technologies.

In keeping with our goals of supplying the best resinous flooring systems in the industry, **Key Resin Company** now has **Key Resin MMA** products, made of 100 percent reactive methyl methacrylate resin. **Key Resin MMA** is a two component acrylate resin which is free of thinner and cures very rapidly in a chemical reaction.

Key Resin 9112 MMA is the recommended primer for most MMA systems, especially on cementitous substrates. It is also a good binder used with self-leveling filler to level uneven floor and wall surfaces. Application rates are designed to put a good resin-rich layer on the surface, 100 sq ft per gallon is normal.

Key Resin 9418 MMA is a general purpose basecoat for many systems, to achieve the required thickness for mechanical loads and traffic. **Key 9418 MMA** is used as a binder resin for slurry (SL) or troweled mortar (TM) topping for food, beverage, warehouse and plant applications. Typical application is 1/8" up to 1/4" in thickness.

Key Resin 9522 MMA is the seal coat for most **Key Resin MMA** systems. Primarily used over **Key 9418 MMA** based slurries and mortars and **Key 9510 MMA** mortars. The **Key 9522 MMA** provides better scratch resistance, higher temperature stability and improved chemical resistance. The application of **Key 9522 MMA** is typically 10-20 mils. Due to the rapid reaction and hardness, **Key 9522 MMA** does not go directly over **Key 9332 MMA**.

Key Resin 9526 MMA is the preferred sealer applied over **Key 9418 MMA** and **Key 9510 MMA** for exposure to continually wet areas such as production areas of the food and beverage industry. Due to the rigidity of **Key 9526 MMA**, do not use directly over **Key 9332 MMA**.

Key Resin 9528MMA is a resilient, semi-flexible sealer designed as a sealer directly over **Key 9332 MMA** flexible base resin, and as a grout coat sealer over other MMA resins broadcasted with colored quartz or chips due to its excellent clarity at greater thicknesses. It is excellent for exterior applications. Typically installed at 16-32 mils, with a maximum of 80 mils to avoid yellowness.

Key Resin 9332 MMA is the highly elastic (elongation – 300%) resin used as a membrane under wear-resistant toppings based on **Key 9418 MMA** or it may be sealed directly with **Key 9528 MMA** only. **Key 9332 MMA** maintains its flexibility at low temperature.

Key 9332 MMA is applied as a slurry with added Key Self-Leveling Filler powder at thicknesses from 1/8 to 1/4 inches and protects against impact, thermal shock and excessive vibrations. Low temperature and outdoor applications on bridge decks, loading docks and parking decks are ideal.

If sealing **Key 9332 MMA** with a neat resin topcoat only, always use **Key 9528 MMA**.

Key Resin 9510 MMA is a low viscosity, flexible binder resin for high loading mortars and polymer concrete. The **Key 9510 MMA** is ideal to make repairs and to change slope on industrial floors. Polymer concrete systems can be installed up to 2.5 inches in one operation.

Key Resin MMA floor systems may be installed on most substrates such as old or new concrete, metal and wood. **Key MMA** can be used with colored quartz and other aggregates for a decorative finish and the use of the flexible membrane provides for waterproof and crack isolation.

Key Resin MMA is very easy and fast to install, even at temperatures down to -22°F (freezer rooms). At temperatures below 41°F Accelerator 101 must be added. The **Key MMA** systems are wear-resistant, shock-absorbing (impact) and can take full traffic and loads within two hours of application.