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## Fast Cure Polymer Floor Solutions for Speedy Maintenance Shutdowns

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Operating in an industrial manufacturing, processing, workshop, distribution or service environment requires speed, agility and a proactive approach.

Opening new facilities or carrying out maintenance on existing surfaces can prove a challenging undertaking for building owners and managers looking to provide stakeholders with a safe, efficient and GMP compliant working space - all without impacting on trading requirements.

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### Methyl Methacrylate Flooring

The prospect of overhauling an existing floor finish within a live trading space or to a tight opening/shutdown deadline can seem daunting and a speedy solution is often sought to allow follow on trades' access to the site as quickly as possible and deliver the space back to the client in a timely manner.

Seamless methyl methacrylate (MMA) flooring solutions are increasingly popular for floor renovation and resurfacing projects, providing a hygienic, attractive and wear resistant surface, which is fully trafficable just 60 minutes after installation.

### Speed of Installation & Cure

The greatest advantage of MMA flooring over epoxy or cementitious urethane alternatives is the material's speed of installation and cure.

Typically MMA flooring reaches full physical and chemical cure within 60 minutes of installation, meaning that the surface can be subject to full operational use under an extremely tight turnaround.

Unlike labor intensive trowel applied resin systems, MMA flooring is typically flow applied and hand broadcast with aggregates, allowing large areas to be installed at a significantly faster rate than other materials while at the same time ensuring a high quality finish, free of trowel marks.

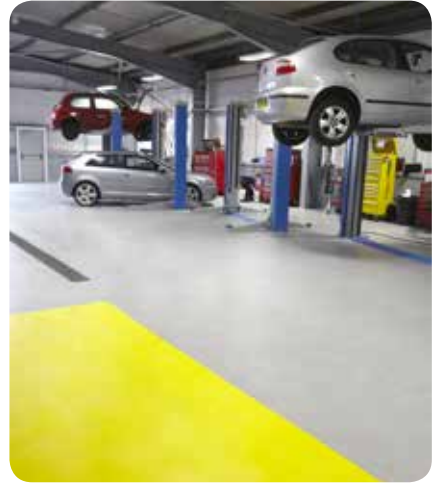
MMA flooring can be installed within a wide temperature range and in conditions as low as -20°F, making the material a popular option for unheated construction sites or alternatively supermarkets and food service facilities using back-of-house cold stores, walk-in-coolers and blast freezers to store food products.

### Slip Resistance

In the majority of instances, an anti-slip flooring system, that will remain slip resistant under high foot and rubber wheeled traffic conditions for the long-term, is required. Employees and visitors to the site can bring in remnants of bad weather underfoot or the area in need of surfacing may be subject to wet service conditions, cleaning processes or spillages

**TIP:**

MMA flooring materials deliver a trafficable surface in just 60 minutes!



– all of which can result in the floor becoming slippery, increasing the risk of slips and trips and as such any liability to the building owner.

MMA flooring comes available in both non-slip and smooth textures to meet variable slip resistance requirements. Where heightened traction is required, quartz aggregates can be broadcast over the MMA material to deliver a positively textured, anti-slip finish that will help to minimize slip and trip risks.

### **Easily Maintained**

Maintenance costs are a big factor for many clients when selecting a floor finish. Not only does the initial material price and installation cost need to be considered but also the material's life expectancy and any associated maintenance expenses.

MMA systems are laid in situ to deliver a seamless, pinhole free finish that is impermeable to liquids. With MMA there are no cracks, crevices or grout lines in which to harbor dirt, bacteria and mold spores.

MMA resins exhibit high UV resistance and color stability. Likewise, the material will not become brittle with age, as is the case with certain epoxies.

An MMA surface can be easily cleaned with a damp mop and mild cleaning solutions with no requirement for labor intensive and costly steam or specialist cleaning methods.

End of life MMA floors can be easily and quickly overcoated with a further MMA finish, with the new layer chemically fusing to the previous layer to create an unbreakable chemical bond.

### **Stain & Chemical Resistance**

MMA floors offer good resistance to a wide range of substances and aggressive chemicals including most organic and mineral acids, alkalis, salt solutions, natural oils and fats, disinfectants, cleansers and sanitizers as well as sugar syrups, alcohols, fruit and vegetable juices.

The material demonstrates excellent resistance to staining and discoloration, making it an ideal choice for food service areas, supermarkets and grocery stores subject to common spillages.

### Aesthetics

MMA flooring is available in a wide range of colors and patterned finishes with a creative mix of pigmented vinyl flakes or quartz aggregates that can be used to complement surrounding interiors. The material can also be installed in bespoke patterns or color schemes to align with corporate branding or a floor zoning management plan.

### What is Methyl Methacrylate Flooring?

Methyl Methacrylate derives from the petrochemical industry and is used in an assortment of applications including bone surgery, dentistry, road marking and Plexiglas manufacture as well as flooring.

MMA flooring offers rapid installation and cure times, incredible bond strength and high compressive strengths as well a wide installation temperature range.

MMA flooring is 100% solid, resin saturated acrylic, which is non-porous and monolithic, creating an impervious, pinhole free surface offering a high level of protection against chemical attack and spillage. Because of the fast cure time of the material, MMA flooring offers clients a reduction in downtime and minimizes any loss of revenue. MMA flooring is non-toxic and extremely low in VOC. The material does exhibit a distinct odor during installation, however this is entirely harmless, can be completely eliminated with the right ventilation program in place and disappears once curing has taken place.

Deep penetrating primers and the thermoplastic fusing of the MMA layer to the existing substrate creates an unbreakable bond that ensures the material's longevity with installations lasting in excess of 15 years with correct maintenance.

**This guide has been produced to provide an overview of fast cure MMA flooring solutions.**

**Detailed recommendations and advice are available from our network of regional technical and sales representatives.**

For more information on Flowcrete's specialist flooring solutions, get in touch with the team today...



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