

Hygienic Solutions MMA Resins

Specialist in Hotel & Food Service Flooring
Naturally Anti-Bacterial Wall Coatings
Hygienic Kitchens
B.O.H Areas
Car Parks



Hygienic Solutions
MMA Resins



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Hygienic Solutions MMA Resins provides hard wearing, durable, flexible, 100% seamless flooring and hygienic wall systems. HS systems comply with UAE municipality regulations for food and hygiene to give a full hygienic seamless room with no joints. HS MMA is manufactured in Germany and kept in stock in the UAE.

Hygienic Solutions MMA resins flooring performance against Epoxy and Polyurethane is unrivaled and we offer up to 10 year guarantees on both materials and application, not a back to back guarantee like most manufacturers.

Methyl Methacrylate Resin (MMA) was invented in around 1965. The prime use for MMA was as a modifier for PVC, another application was as a cement for total hip and knee replacements by surgeons, it is used to fix bone to bone, which is still used today. Over the last 50 years MMA has been developed for wall and floor coatings due to its natural anti-bacterial properties, no VOC's and it has no Isocyanates which are harmful to mankind causing asthma and possibly cancer.

Over the last 6 years we have completed over 200 projects from hotels, schools, restaurants, factories and theme parks.

Because of the quality of our service and application we are now the preferred supplier for all of Accor hotels, Safeer Group, Wyndham group, Rove Hotels, Vida Hotels, Carrefours and Lulu. In addition to this Hygienic Solutions MMA Resins are the recommended flooring and wall system solution for the majority of Kitchen consultants including; Tricon, SHW, Focus, IO Consultancy, HPG, HCTS and I4 Consultancy.

HYGIENIC SOLUTIONS MMA RESIN COMPARISON AGAINST EPOXY RESINS, POLYURETHANE RESINS & CERAMIC TILES

| PROPERTIES | HYGIENIC SOLUTIONS MMA RESIN | EPOXY RESIN | POLYURETHANE RESIN | CERAMIC TILES |
|--|---|---|---|--|
| WALK ON DRY FLOORS | 15 MINUTES | 24 HOURS | 24 HOURS | 24 HOURS |
| FULLY CURED FLOOR SYSTEM | 1 HOUR | UP TO 14 DAYS (AMBIENT TEMPERATURE) | UP TO 14 DAYS (AMBIENT TEMPERATURE) | DEPENDS ON BONDING AGENT USED |
| WORK ON FLOOR (EQUIPMENT IN) | 1 HOUR | AFTER CURING UP TO 14 DAYS | AFTER CURING UP TO 14 DAYS | 3 DAYS DEPENDING ON BONDING AGENT USED |
| 100% SEAMLESS | YES, 100% SEAMLESS | NO, REQUIRES SEALANTS AROUND DRAINS, JOINTS ETC. | NO, REQUIRES SEALANTS AROUND DRAINS, JOINTS ETC... | NO, REQUIRES SEALANTS AROUND DRAINS, JOINTS ETC.. |
| 100°C HIGH TEMPERATURE | YES, ACHIEVES 100°C TEMPERATURES @ 4MM THICK | NO, ONLY 60°C MAX | 9MM & 12MM THICK ONLY, 4MM ACHIEVES 70° AND 6MM ACHIEVES 80° | YES, ACHIEVES 100° C |
| -35° C LOW TEMPERATURE | YES, -35°C @ 4MM | DEPENDS ON THICKNESS | -35°C @ 9MM | NO, WILL DE-BOND |
| HIGH IMPACT LOADS | YES, NATURAL STONE TAKES HIGH IMPACT, COLOURED QUARTZ | NO, TOO HARD @65-70N/MM2 TOO BRITTLE, WILL CHIP AND BREAK | YES @ 9MM AND 12MM THICK. | NO, TOO BRITTLE, WILL CRACK AND CHIP |
| STEAM CLEANABLE | YES, @ 4MM THICKNESS | NO, WILL CRACK | YES @ 9MM AND 12MM THICK ONLY | NO, GROUT WILL BLAST OUT |
| NATURAL ANTI-BACTERIAL | YES, INDEPENDENTLY TESTED | NO, REQUIRES ADDITIVES | NO REQUIRES ADDITIVES | NO REQUIRES ADDITIVES |
| THERMAL COEFFICIENT EXPANSION DRAINS | YES, WILL MOVE WITH STAINLESS STEEL DRAINS AND GULLIES | NO, REQUIRES SEALANT AROUND DRAINS AND GULLIES | NO REQUIRES SEALANT AROUND DRAINS AND GULLIES | NO REQUIRES SEALANT AROUND DRAINS AND GULLIES |
| THERMAL SHOCK TEMPERATURE DIFFERENCE FLOOR TO ROOM AIR | HYGIENIC SOLUTIONS MMA RESIN TAKES THERMAL SHOCK | NO, WILL CRACK AND DELAMINATE | YES, TAKES THERMAL SHOCK | YES TAKES THERMAL SHOCK |
| CHEMICAL RESISTANCE FOOD ACIDS | EXCELLENT RESISTANCE | VERY POOR | POOR | POOR RESISTANCE DUE TO GROUT |
| CHEMICAL RESISTANCE ORGANIC ACIDS | EXCELLENT RESISTANCE | POOR RESISTANCE | POOR RESISTANCE | POOR RESISTANCE DUE TO GROUT |
| DIFFERENT SLIP RESISTANCE WITHOUT JOINTS | YES, BY INCREASING THE SEALER COATS ACHIEVES DIFFERENT SLIP | NO, REQUIRES JOINTS OR BREAKS WHICH MEANS MORE SEALANT | NO, REQUIRES JOINTS OR BREAKS WHICH MEANS MORE SEALANT | YES, JUST CHANGE THE TILE TYPE |
| NO SEALANTS AS PART OF SYSTEM | NO SEALANTS ARE PART OF HYGIENIC SOLUTIONS MMA SYSTEM, (FREEZERS ONLY) | YES, REQUIRES SEALANTS | YES, REQUIRES SEALANTS | YES, REQUIRES SEALANTS |
| MANUFACTURED APPLIED | YES, APPLIED DIRECTLY | NO, APPLIED BY APPLICATORS | NO, APPLIED BY APPLICATORS | NO, APPLIED BY APPLICATORS |
| GUARANTEE'S DIRECT FROM MANUFACTURER | YES, GUARANTEED DIRECT INCLUDES PRODUCT AND APPLICATION | NO, ONLY PRODUCT GUARANTEED, APPLICATOR GUARANTEE'S HIS WORKMANSHIP | NO, ONLY PRODUCT GUARANTEED, APPLICATOR GUARANTEE'S HIS WORKMANSHIP | NO, ONLY PRODUCT GUARANTEED APPLICATOR GUARANTEE'S HIS WORKMANSHIP |
| VOC'S IN PRODUCT | NO, VOC'S IN PRODUCT | YES | YES | ? |
| DIISOCYANATES/ ISOCYANATES | NO | YES, IN THE HARDENER | YES, IN THE HARDENER | ? |

HYGIENIC SOLUTIONS MMA HOTEL APPLICATION CHART

| LOCATION | SYSTEM | SLIP RESISTANCE | COLOUR CHOICE |
|-----------------------------|--|--------------------------------|---|
| HOT KITCHEN | MMA COLOUR QUARTZ | R10 DRY AREAS R11 WET AREAS | LIGHT IN COLOUR (LIGHT GREY,BEIGE, BLUE) * |
| COLD KITCHEN | MMA COLOUR QUARTZ | R10 DRY AREAS R11 WET AREAS | LIGHT IN COLOUR (LIGHT GREY,BEIGE, BLUE) * |
| BAKERY | MMA COLOUR QUARTZ | R10 DRY AREAS R11 WET AREAS | LIGHT IN COLOUR (LIGHT GREY,BEIGE, BLUE) * |
| BUTCHERY | MMA COLOUR QUARTZ | R10 DRY AREAS R11 WET AREAS | LIGHT IN COLOUR (LIGHT GREY,BEIGE, BLUE) * |
| FISH AREA | MMA COLOUR QUARTZ | R10 DRY AREAS R11 WET AREAS | LIGHT IN COLOUR (LIGHT GREY,BEIGE, BLUE) * |
| LAUNDRY | MMA COLOUR FLAKES | R9/R10 | OVER 200 RAL COLOURS TO CHOOSE FROM * |
| CORRIDORS | MMA COLOUR FLAKES/ MMA LIQUID VINYL | R9 | OVER 200 RAL COLOURS TO CHOOSE FROM * |
| DRY STORE ROOMS | MMA LIQUID VINYL | R9 | OVER 200 RAL COLOURS TO CHOOSE FROM * |
| WET STORE ROOMS | MMA LIQUID VINYL | R11 | OVER 200 RAL COLOURS TO CHOOSE FROM * |
| PLANT & ELECTRICAL ROOMS | MMA PIGMENTED SYSTEM | R9 | OVER 200 RAL COLOURS TO CHOOSE FROM * |
| DISH/VEG/POT WASH | MMA COLOUR QUARTZ | R11 | LIGHT IN COLOUR (LIGHT GREY,BEIGE, BLUE) * |
| MAINTENANCE ROOMS | MMA PIGMENTED SYSTEM | R9 | OVER 200 RAL COLOURS TO CHOOSE FROM * |

* Please see our Hygienic Solutions colour charts for more information and colours

MUNICIPALITY REGULATIONS & KITCHEN CONSULTANT REQUIREMENTS

• Meets the Requirements

| PROPERTIES | HYGIENIC SOLUTIONS MMA RESIN | EPOXY RESIN | POLYURETHANE RESIN | CERAMIC TILES |
|---|---------------------------------|--|---|---|
| High temperature over 100°C | ● | No, Only achieves 60°C | Only 9mm & 12mm achieves over 100°C | ● |
| Thermal Shock | ● | No, Will Crack and De-Laminate | ● | ● |
| Thermal Co- Efficient Expansion | ● | No, Will Crack and De-Laminate | No, Requires Sealants | No, Requires Sealants Will Crack |
| High Impact Loads | ● | No, Too Hard will chip at 65/70 N/mm ² | Only 9mm & 12mm Suitable | No, Will Chip & Crack as Too Hard |
| 100% Seamless | ● | No, Requires Sealants Around Drains and Joints | No, Requires Sealants Around Drains and Joints | No, Has Grout Lines & Sealants Around the Drains |
| Steam Cleanable | ● | No, Will Crack and De-Laminate | Only 9mm & 12mm Suitable | ● |
| Naturally Anti- Bacterial | ● | No, Requires an Additive | No, Requires an Additive | No, Requires an Additive |
| Suitable for Freezer at Low Temperatures | ● | No, Will Crack and De-Laminate | No, Depends on Thickness | No, Will De-Bond & Pull Off |
| Different Slip Resistance Without Joints | ● | No, Requires Joints that then Require Sealants | No, Requires Joints that then Require Sealants | No, Requires Joints & Grout Lines |

