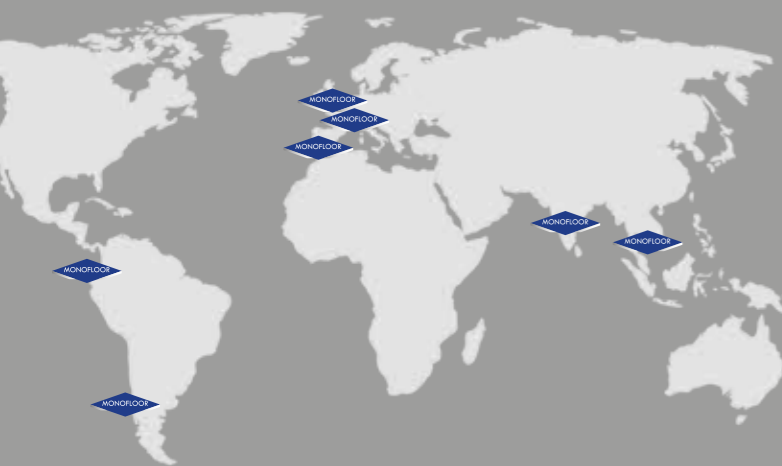




Industrial Flooring Consultants

### Locations:

Birmingham | Le Mans | Madrid | Bogota | Mumbai  
Santiago | Singapore



#### UK

Tel: +44 (0) 121 236 5218

#### SPAIN

Tel: +34 (0) 91 821 0250

#### FRANCE

Tel: +33 (0) 2 49 54 0070



[www.monofloor.com](http://www.monofloor.com)

[consultants@monofloor.com](mailto:consultants@monofloor.com)



### The MONOFLOOR Group

**MONOFLOOR** is an international group of specialist industrial flooring consultants and project managers, operating since 1994. Our engineers create flooring concepts and designs for global manufacturers, retailers and distribution brands. We supervise projects during the construction phase, so floors meet the specified standards.

We produce independent reports, both on site and in our facilities. We investigate problems and specify remedial action for damaged floors.

We support clients, designers and contractors at every stage of a floor's life cycle.

- Our engineers create flooring concepts and designs for global manufacturers, retailers and distribution brands.
- Our project managers supervise projects during the construction phase, so floors meet the specified standard.
- We investigate problems and specify remedial action for damaged floors.
- We supervise floor repairs, for example to rectify and prevent floor joint damage.
- Finally, we share our knowledge through presentations, papers, guidance and formal training.

**MONOFLOOR** staff work together as a united global team, sharing each other's strengths. With combined knowledge gleaned on hundreds of projects worldwide, our global experience and reputation are second to none.

We provide our services independently for clients and contractors, and as an integral part of our parent group, RCR Industrial Flooring.

## Training and Sharing Information



**MONOFLOOR** continuously carries out research and development to adopt and develop the latest innovations. As a global group we are united in sharing our knowledge and experience to develop our expertise to be able to provide a better services to our clients.

As a result of our training and sharing of information we have created detailed standard operating procedures and performance certification.

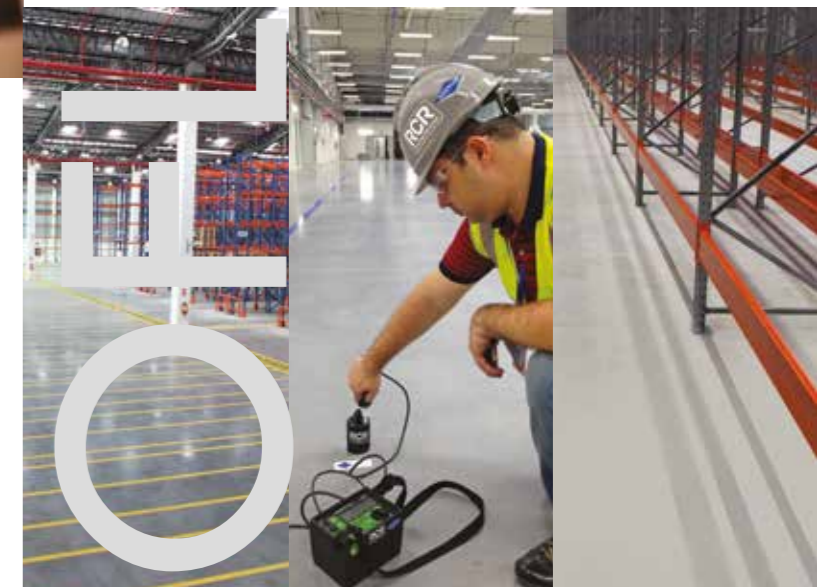
We regularly present seminars at conferences, and undertake private team training sessions. We also share our knowledge by writing papers and articles for respected industry journals.



- Research & Development
- Certification
- Standard Operating Procedures
- Seminars
- Press & Journal Articles
- Professional Reviews
- Presentations
- General Advice



Industrial Flooring Consultants



MONOFLOOR

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# Conception and Design

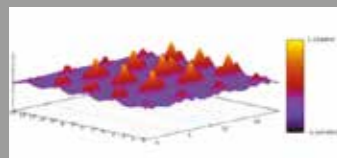


From the very earliest stages, our team works closely with clients and contractors to design engineered, cost-effective industrial floors.

We interpret initial requirements to create concepts and options for clients. Then we undertake static calculations, followed by detailed designs, so the client has the assurance that the floor will be perfectly specified for their needs.



**MONOFLOOR** has developed an internal design software FloorMaster® for flooring calculations according to various international standards (DTU 13.3 French, TR34 4<sup>th</sup> edition, ACI, EN, ...).



Stress

The program has the capacity to simulate all kinds of loading conditions, and many possible combinations.



Settlement

- Interpret Requirements
- Static Calculations
- Detailed Design
- Product & Material Specification
- Concrete Mix Design
- Project Management
- Professional Indemnity

# Construction



Once plans are approved, our project managers work alongside the construction team throughout the process.

We attend site meetings, so we can understand practical implementation issues, and give our advice.

We undertake detailed aggregate grading reviews – the effect of various admixtures, for example – to help create a perfectly tailored concrete mix.

We work alongside specialist flooring applications companies on site, providing training to help ensure excellent results. This is particularly useful if teams are less experienced in working to tight tolerances.

We oversee quality management on site, so that consistent processes will produce consistent results.

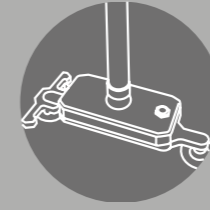
We also advise on equipment, so that contractors can understand how this affects the pour and finishing, and can choose the best equipment to achieve the desired results.



- Pre Contract Site Meetings
- Materials Review
- Training
- Quality Management
- Site Supervision



# Testing and Reporting



Testing occurs before and after the creation of a floor. In our testing facilities we can run tests on concrete strength and mix design, as well as using onsite testing methods for concrete control with the innovative technology Dramix EyeD. Then, once a floor has been created, our specialist engineers undertake a suite of tests to verify flatness and abrasion resistance.

**MONOFLOOR** offers services of flatness control in accordance with the different international standards for random traffic or VNA: English TR34 4<sup>th</sup> edition, German DIN, European EN, American ASTM FF/FM

**MONOFLOOR** has developed its own equipment and software for the most accurate and reliable results: FloorPro® system and the FMAS.

We can also undertake specialist conductivity testing on concrete resin sub base.



The FMAS system



Dramix EyeD



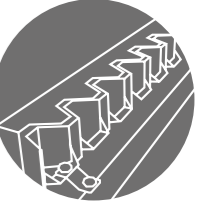
The FMAS system analysis



Conductivity testing in action

- Flatness
- Abrasion
- Sub base
- Concrete
- Specialist Lab Testing
- Conductivity

# Issue Resolution, Maintenance and Repair



Industrial flooring works hard throughout its lifetime. From time to time problems can occur which cause parts of the floor to fail.

Our expert engineers are skilled at diagnosing the cause of problems (such as slab curling or cracking), and can recommend remedial solutions.

Regular maintenance can prevent more serious problems occurring, or aid early identification. We create routine maintenance plans which can help preserve the life of the floor, and prevent remedial costs from accelerating.

We also provide an expert witness service.



Damaged concrete slab before repair



Concrete slab after repair



Damaged concrete slab before repair



Concrete slab after repair

- Defects Diagnosis
- Repairs - products/advice
- Maintenance advice
- Representation