



## SIKA AT WORK

# Electrostatic Conductive floor in R.G.C.C. Ltd lab facilities, Florina, Greece

FLOORING: Electrostatic conductive floor system Sikafloor® MultiDur® ES-31 ECF

BUILDING TRUST



# R.G.C.C. LTD LAB FACILITIES, ELECTROSTATIC CONDUCTIVE FLOOR SYSTEM



## PROJECT INFORMATION

R.G.C.C. Group (Research Genetic Cancer Centre) is a global organization working in collaboration with branch offices and distributors to provide a world-wide service. The company is a pioneering, innovative organization working in the fields of medical genetics and, in particular, cancer genetics, chemo-sensitivity and chemo-resistance testing and in Research and Development within the pharmaceutical industry via R.G.C.C. Pharma Ltd. The primary concern of R.G.C.C. Group is for the welfare of cancer patients seeking the very best personalized and integrated treatments and to ensure that clinicians have access to the most up-to-date information which can benefit their patients. R.G.C.C. Ltd has the latest facilities for almost all genomic assays. Most of those assays are performed in-house with highly sophisticated equipment. The sub-areas of genetics that R.G.C.C. Group covers are nucleic acid analysis (DNA/RNA), cytogenetics, transcriptomics, and epigenetics. R.G.C.C. Ltd lab facilities can offer R&D services and also business planning for the Small Medium Enterprise Pharmaceutical industry with specific and strict time limits and controls. The company's headquarters are in Switzerland.

## PROJECT DEMANDS

R.G.C.C. Group offers a range of individualized tests from a world-class molecular oncology laboratory based in Northern Greece. The brand new, state-of-the-art laboratories in Northern Greece (industrial area of Florina) are equipped with the most up-to-date technologically advanced and innovative equipment. In the lab facilities of R.C.G.G. in Florina personalized cancer treatments and identification of suitable treatments that may work best for the individual with cancer are being performed via chemosensitivity testing. Chemosensitivity testing involves testing an individual's cancer cells in the laboratory to see which drugs and which

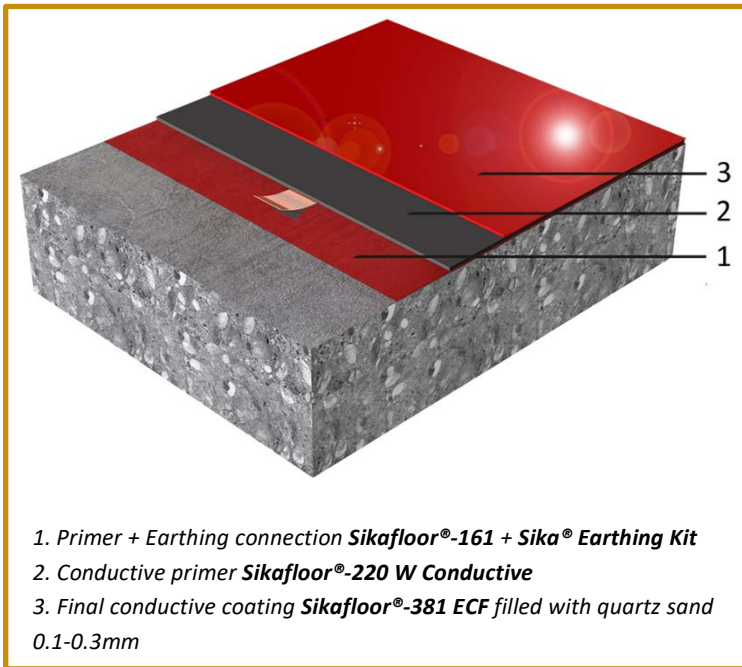
natural substances demonstrate the best response, providing information and guidance about the best suited treatments to the individual in clinical practice.

In areas where electronic components or volatile chemicals are involved, static electricity can result in significant damage, injury and financial loss. All active electronic components and equipment e.g. micro-chips, integrated circuits and machinery are sensitive to electrostatic discharges (also known as ESD events). Even when areas and people are equipped to handle such static-sensitive devices, inadvertent contact and damage can occur. Therefore, there was a demand for application of an electrostatic conductive flooring system, that would ensure safety and accuracy of such a meticulous medical test, since the outcome of the results is crucial for the individual patient.

## SIKA SOLUTION

Sika has in its product range **Sikafloor® ESD** (Electro Static Discharge), **DIF** (Dissipative Flooring) and **ECF** (Electrically Conductive Flooring) systems that can safeguard your entire process. These systems can be designed to produce a floor tailored to meet your specific needs. Conductive Flooring Material (ECF) (e.g. according to DIN EN 1081) is a floor material that has a resistance to ground (RG)  $< 1.0 \times 10^8$  ohms.

On the 1,800 m<sup>2</sup> floor of the lab facilities, the **Sikafloor® MultiDur ES-31 ECF** system was applied. **Sikafloor® MultiDur ES-31 ECF** is a two part, electrostatic conductive self-smoothing, coloured epoxy flooring system with high chemical resistance, used as electrostatic conductive wearing layer. It features very high chemical and mechanical resistance, is impervious to liquids, is abrasion resistant and electrostatically conductive.



Afterwards, the 2-component epoxy primer **Sikafloor®-161** was applied and the earthing connection **Sika® Earthing Kit** were placed, according to the specification and demands of the client. Then the conductive primer **Sikafloor®-220 W Conductive** was applied and finally the conductive coating **Sikafloor®-381 ECF** filled with quartz sand (0.1-0.3mm) was applied.



The products that comprise the ECF system carry Declaration of Performance (CE) according to EN 13813 & EN 1504-2, low particle emission certificate (ISO 14644-1, class 4) and the whole system is spark resistant in accordance with UFGS-09 97 23.

#### SYSTEM CONFIGURATION

On the concrete slab, **Sikaplan® WP Floor Sheet** was applied (vapor control barrier). On top of **Sikaplan® WP Floor Sheet** the industrial concrete floor was casted and the coloured, mineral dry shake floor hardener **Sikafloor®-3 QuartzTop** was applied. Afterwards, joints were sawn and waiting time was observed until the measured substrate moisture content was < 4% p.b.w.



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Please consult the most recent Product Data Sheets prior to any use and processing.

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