



ABU ANAS LLC

Trusted name in Construction Chemical
Application - Oman

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CASE STUDY



FOOD TESTING LAB

Food testing plays a crucial role in ensuring the safety and quality of food products. It helps to identify harmful contaminants, such as bacteria and chemicals, that can cause foodborne illnesses, and detects allergens that can trigger severe reactions. The testing process helps to maintain the quality and consistency of food products by verifying that they meet regulatory requirements and industry standards.

Maintaining hygiene in such food testing labs helps to prevent the spread of contaminants and ensure that the samples are not contaminated during the testing process. Secondly, food testing areas need to comply with regulatory requirements set by organizations such as HACCP, which mandate strict hygiene standards.

Project Details

Client : Food Safety and Quality Center

Applicator : Abu Anas LLC

Product : Ucrete MF / HF 60 RT / RG

Supplier : Master Builders Solutions

HYGIENIC FLOORING

Maintaining hygiene in food testing areas helps to maintain the integrity and accuracy of the testing process by ensuring that the samples are not compromised by external factors such as dirt, dust, or other contaminants hence hygiene is critical in food testing areas to ensure public safety, comply with regulatory requirements, and maintain the accuracy of the testing process.



IDEAL SCREED FOR FOOD RELATED INDUSTRY.

Ucrete polyurethane screed is a highly durable and resistant flooring option that is ideal for use in floor related industries due to its ability to withstand heavy wear and tear, extreme temperatures, and chemical damage. It is a hygienic and easy-to-clean flooring system that is non-porous and resistant to bacterial growth. Ucrete polyurethane screed is also slip-resistant, making it safer for industries where the floor is exposed to liquids or oils. It can be installed quickly and can be customized to meet specific needs in terms of colour, texture, and thickness. Overall, Ucrete polyurethane screed is a high-performance flooring system that provides exceptional durability, hygiene, safety, and customization options for a variety of floor related industries.

Ucrete is a high-performance industrial flooring system that is made from a unique polyurethane resin technology. It is a heavy-duty flooring solution that is designed to withstand extreme conditions, such as heavy traffic, impact, abrasion, chemicals, and temperature fluctuations.

Ucrete flooring is widely used in food and beverage processing plants, pharmaceutical facilities, chemical plants, breweries, dairies, and other industrial and commercial settings that require a durable and hygienic flooring system. Ucrete is also known for its slip-resistant properties, making it an excellent choice for areas that are prone to spills and wet conditions.

Ucrete is a trademarked product of Master Builders Solutions, a global chemical company that specializes in the development and manufacturing of construction chemical products and solutions.



PROPERTIES OF UCURETE



Durable



Hygienic



Non-Tainting



Chemical Resistance



Moisture Tolerant



Clean and Safe



Thermal Shock



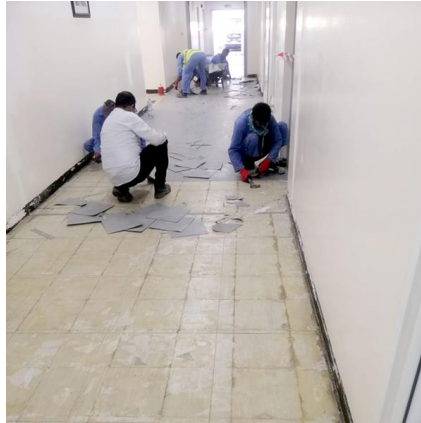
Fast Application



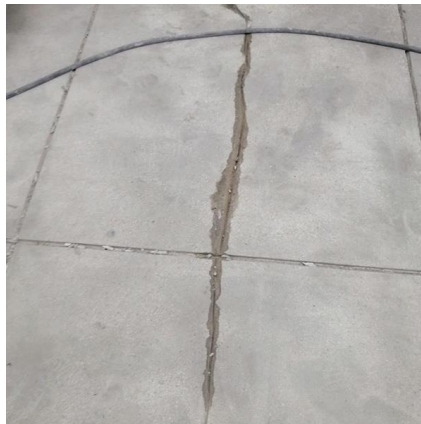


Our project involved the removal of vinyl floor and skirting in the corridors, three laboratories, and a chemical storage room, as entrusted by the ministry. The project was divided into three main phases: firstly, the removal of the vinyl floor; secondly, surface preparation, including grinding and crack repair; and finally, the installation of Ucrete MF at 4 mm thickness for the floor and Ucrete RG at 100 mm height for the skirting.

PHASE 1 – REMOVAL OF VINYL FLOORING & SKIRTING



PHASE 2 – SURFACE PREPARATION



Once the vinyl flooring was removed, it was crucial to eliminate any remaining residue, especially the glue that was used to secure the vinyl tiles. The surface was then ground, cracks were filled, and thoroughly cleaned in preparation for the final top layer of polyurethane screed, Ucrete MF. As per the instructions of technical personnel from Master Builders Solutions, grooves were incorporated into the flooring to meet the product requirements.



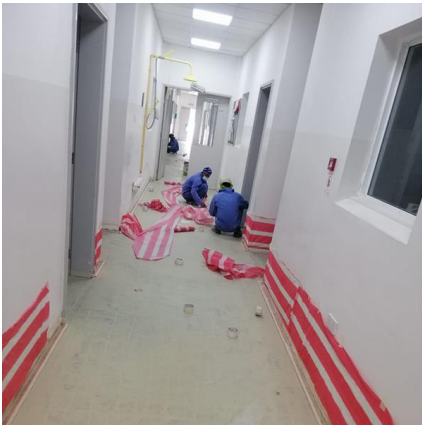


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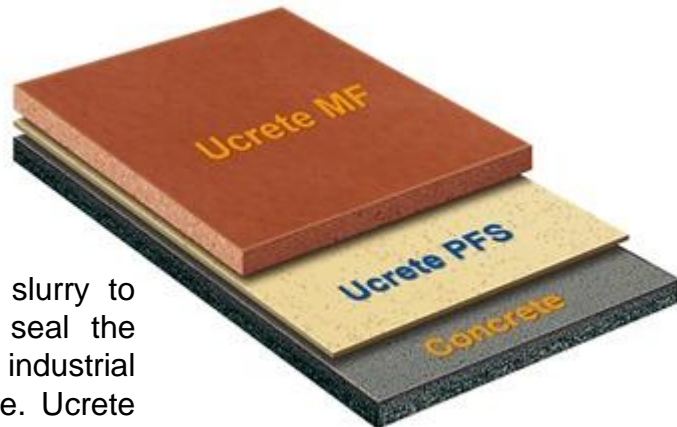
PHASE 3 – APPLICATION OF PRIMER AND BASE COAT



In order to prevent the polyurethane screed from debonding from the concrete substrate, grooves are cut into the concrete to provide an anchor for the Ucrete MF.

The primer used for Ucrete MF is Primer FS. Ucrete Primer FS is a rapid curing solvent free slurry primer applied by squeegee and trowel at a thickness of 0.3 to 1mm

Ucrete PRIMER FS is applied as a flowing slurry to prepared concrete substrates to completely seal the substrate prior to overlaying with Ucrete industrial flooring and provides a smooth even substrate. Ucrete PRIMER FS is the primer of choice for use with all Ucrete floors wherever speed of installation is important.



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PHASE 4 – MIXING AND APPLICATION OF POLYURETHANE SCREED



According to the manufacturer's instructions, Ucrete is mixed with a mechanical mixer. The mixed material is then poured onto the substrate and spread evenly using a pin screed rack to achieve a uniform thickness. To release any air that may have been trapped during the mixing process, the freshly applied Ucrete is then rolled with a spiked roller. This step helps to eliminate air pockets, ensure proper adhesion, and provide a smooth and even surface for the final cured screed.





PHASE 4 – MIXING AND APPLICATION OF POLYURETHANE SCREED



The flooring system applied in the project consisted of Ucrete MF, which was applied at a thickness of 4 mm in the corridors, Ucrete HF 60 RT at 6 mm thickness in labs and chemical stores, and Ucrete RG for coving. To ensure compliance with the manufacturer's recommended method statement, the Master Builders Solutions technical team conducted regular inspections throughout the application process. Moreover, the manufacturer provided timely supply of materials to support the project's progress.



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PHASE 4 – MIXING AND APPLICATION OF POLYURETHANE SCREED



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UCRETE CERTIFIED APPLICATOR

The application of Ucrete screed systems is a highly specialized process that requires a trained and certified applicator to ensure optimal performance and longevity of the flooring system. A certified applicator is equipped with the necessary knowledge, skills, and expertise to properly mix, apply, and finish Ucrete to the manufacturer's recommended specifications. This not only ensures that the flooring system meets the required performance standards but also helps to minimize the risk of premature failure or damage.

Abu Anas LLC is a trusted applicator of Ucrete screed systems and has undergone rigorous training and certification by Master Builder Solutions. We have the skilled manpower, specialized equipment, and resources required to execute a Ucrete project of any size and complexity. Our team of certified applicators has years of experience working with Ucrete screed systems, ensuring that the flooring system is applied correctly, and in accordance with the manufacturer's recommended specifications. As a result, Abu Anas LLC has established a reputation for delivering high-quality, long-lasting Ucrete screed systems that meet the performance requirements of a wide range of industries.

Contact Abu Anas LLC for your next Polyurethane screed works in Oman at info@abuanas.om or call 00968 91145302.



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