



# CASE STUDY



## Overview

There are some substances in life that are destined to be a pain in the neck when it comes to flooring – one of these is battery acid. In fact, the corrosive nature of battery acid means that it will do serious damage to most floor coverings.

The amount of damage that it does depends on the type of floor and the duration of contact. It is possible to prevent this kind of floor damage by opting for a polyurethane screed that provides resistance to abrasion, thermal shock and aggressive chemicals.

In a battery factory where you really want to get to grips with acid issues, specialized polyurethane screeds are the right solution to protect the floor.

## Project Details

**Reem Batteries & Power Appliances Co  
SAOC**

**Client :** Reem Batteries & Power Appliances Co  
SAOC

**Contractor:** Abu Anas LLC

**Product :** Ucrete HF 60 / Ucrete RG

**Product Supplier :** MasterBuilders Solutions  
Oman

**Polyurethane Screed**

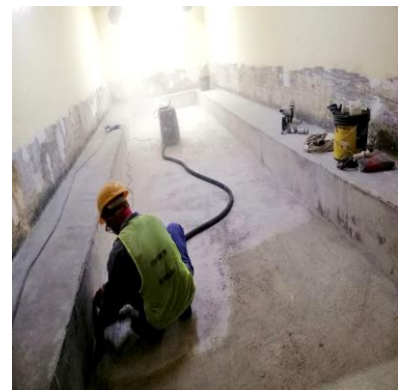


## Challenges

Long duration of exposure to battery acids had corroded the floor badly. The walls too were in a bad shape. The battery fumes created additional hurdles for our team to work at site. We provided respiratory mask to the team, got the floor screed replaced with fresh concrete and the damaged walls were repaired as part of the surface preparation for Ucrete installation.

## Surface Preparation

For application of Ucrete – Polyurethane Screed surface preparation is the key. If the surface is not prepared as per the product and manufacturers recommendations, there is a high chance of failure. The cured floor was grinded, abraded and groves provides as per the product method statement.



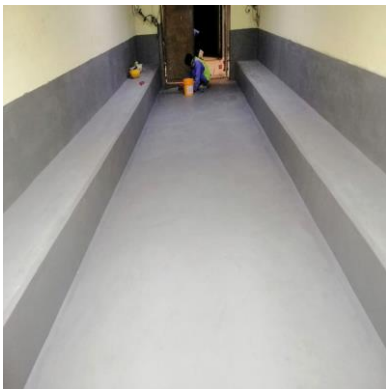
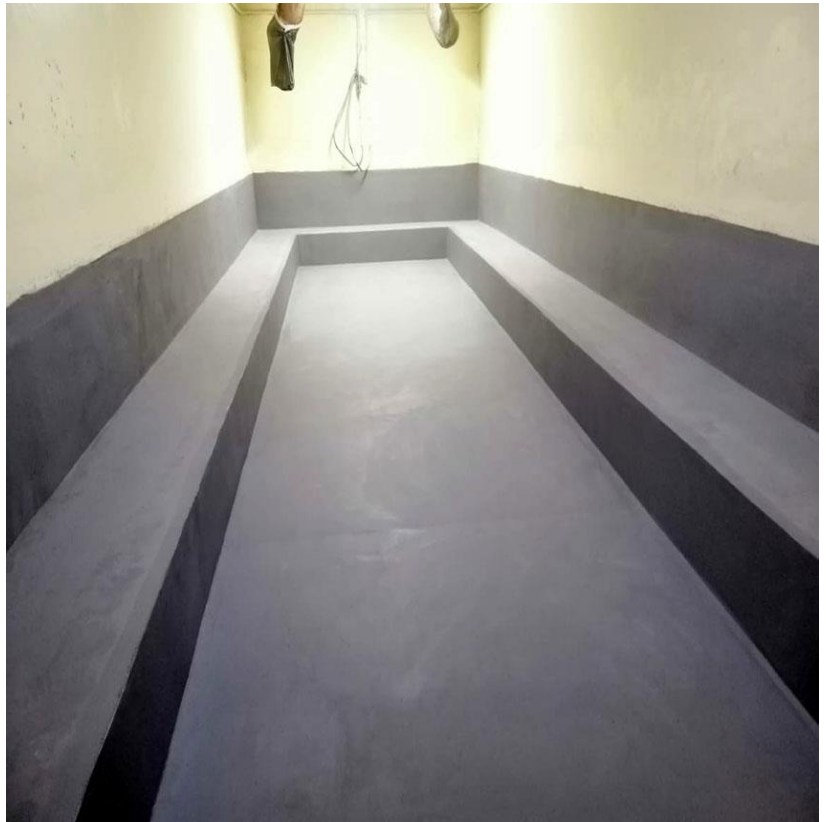
The foundation of any coating or flooring system is surface preparation. The purpose of surface preparation is to create a surface profile that will promote mechanical adhesion by removing all contaminants.





## Final Application

The proposed system was Ucrete HF 60 RT 6 mm on the floor and Ucrete RG on vertical areas. First the floor was completed. After protecting the floor, the vertical application was carried out.



In a running plant the downtime needed for floor rectification is critical. Thanks to Ucrete's fast installation, production downtime was minimized, and costs saved.







## Test by Client

MasterBuilders Solutions had provided presentations to the Client on the Ucrete systems proposed in the battery rooms. The Client ran their own test on the system by keeping the provided samples in battery acid for a month.

Results of the testing were very impressive as Ucrete showed high resistance to the acid and remained intact whereas the concrete part of the sample was badly affected by the acid. Approvals were given based on the test results.



Ucrete flooring has excellent resistance to a wide spectrum of chemicals, including many industrial chemicals, organic acids and solvents that will rapidly degrade other types of resin flooring.

### Key properties of Ucrete Flooring

Fast Curing, Hygienic, Non-Tainting, HACCP Certified, High Chemical Resistance, Temperature Resistance & Slip Resistant



## Support from Manufacturer

Representative from MasterBuilders Solutions –Oman assisted us from proposal of products to hand over of the project. From sample mockup to the completion of the project all required assistance and support was provided by them. The materials were delivered on time enabling us to meet the project schedule.

Our team are regularly trained and certified by MasterBuilders Solutions on application of Ucrete along with other systems they have.

Abu Anas LLC is a certified and one of the preferred applicator for MasterBuilders Solutions in the country.

The Client was pleased with the application and the professional way their project was handled.

## Specialized Application

Abu Anas LLC is specialized in flooring, Waterproofing, Concrete Repairs, Thermal Insulation, and Decorative flooring application in Oman.

Contact us at [www.abuanas.om](http://www.abuanas.om) or mail us at [info@abuanas.om](mailto:info@abuanas.om), call 00968 91145302

