



Al Ahfad University for Women, Faculty of Medicine



ABOUT THIS PROJECT:

Market Segments: General Construction Foundations	Owners: Al Ahfad University for Women	Products Used: Xypex Admix C-1000 NF
Location: Khartoum, Sudan	Contractors: Dar Al Amara Engineering Consultants	

The Faculty of Medicine at Ahfad University for Women in Khartoum, Sudan, recently addressed the risk of groundwater infiltration in its basement through a waterproofing project. Dar Al Amara Engineering Consultants led this endeavor with the goal of finding a reliable solution within a tight construction schedule, ultimately choosing Xypex Crystalline Technology.

The application of Xypex Admix C-1000 NF at Ahfad University for Women showcased the product's effectiveness in achieving waterproofing within a constrained construction schedule, eliminating the need for surface-applied waterproofing. By opting for Xypex, Dar Al Amara Engineering Consultants ensured a reliable, durable waterproofing and concrete protection solution for the basement area, contributing to the overall longevity and performance of the structure.



To mitigate the groundwater risk and ensure long-term integrity, the project incorporated Xypex Admix C-1000 NF into all below-grade concrete. This admixture was added to the concrete mix during batching to uniformly distribute the Xypex Admix within the concrete. When Xypex is exposed to moisture within the concrete, it reacts to create a crystalline structure, which effectively blocks capillaries and micro-cracks. This renders the concrete impermeable to water and chemically resistant.

