

Project: Dubai International City - JAP015/4-13
Client: Nakheel
Contractor: TEST/Rania JV
Location: Dubai - UAE
Type: Potable Water Tanks Internal Epoxy Coating
Date: April 2007

Project Description:

There were 33 Residential buildings in Dubai International City project with each building having two underground RC Concrete water tanks. Each tank was approximately 175-200m² area and there were two or three pipe entries and a sump pit. It was assumed that the contractor incorporated PVC water bars in all joints to prevent leakage.

Materials:

← **Nitocote EP405**, non-toxic epoxy coating material supplied by Fosroc.

Nitomortar FC, epoxy fairing mortar

Project Value:

Dhs. 200,000

Work Description:

The internal surfaces of the water tanks were repaired using special cementitious mortar such as Crack repairs, Tie rod hole filling, and large honey combed concrete area repairs. The concrete surface was allowed to cure for 28 days prior to treatment then it was prepared by grinding and sanding to remove the rough areas and any surface laitance. The principle of the internal epoxy coating system which was applied was to line the whole concrete surface. The coating was preceded by repairing the small rough areas and the small blow holes with special epoxy fairing mortar then applying a first coat of the epoxy treatment followed with another coat in different color to the first. The surface coating was applied in two coats of 200 microns dft thickness each.

