07 AL KHATM — UNITED ARAB EMIRATES

SLOPE PROTECTION FOR A WHOLE NEIGHBOURHOOD · DESIGN, CREW TRAINING AND SITE SUPERVISION

PROJECT CASE · AL KHATM, ABU DHABI



Installing the Filter Point mattress on the perimeter slopes — Al Khatm, Abu Dhabi

75,000	FP400	14	48 m³
M² PROTECTED	FILTER POINT · 100 MM	TRAINED INSTALLERS	OF CONCRETE PER SHIFT

The brief: to protect against erosion the slopes surrounding an entire neighbourhood in **Al Khatm, Abu Dhabi** — 75,000 m² of desert sand with slopes steeper than 1H:1V, next to homes, streets and services in use. **Geoquest Group**, which owns Synthetex, called on Ece for the **design, crew training and site supervision**.

The solution: mattress **HYDROTEX® FP400 Filter Point** cast in situ, with panels of up to four sections of 34–35 m, slopes of 17–18 m of development and 50 cm deep anchorage. Output scaled from one truck a day to **six 8 m³ trucks**, with flow control on site (cone, target of 7 seconds) — four truckloads were rejected for segregation before injection.

> **Our real product was the team:** Ece assembled a crew of 14 installers from India and Uganda with an eight-step programme and the teaching system **ILUO** — from the classroom to an individual test at every installation position.



The FP400 mattress finished, at dusk over the desert



The crew built by Ece, on the finished slope

PROJECT FILE

Project	Al Heya Project — slope protection
Location	Al Khatm, Abu Dhabi (UAE)
Awarding body	Geoquest Group (Synthetex)
Ece's role	Design · crew training · site supervision
Product	HYDROTEX® FP400 Filter Point
Area	75,000 m²
Conditions	Slope >1H:1V · extreme heat · 30–40 km/h wind