

# Tensar® Glasstex® R60N+C Reinforces Al Hesah Asphalt



## Rectification and Improvement Works

Al Hesah Street, Dubai, UAE

### CLIENT'S CHALLENGE

A heavily trafficked 1.3 km segment of Al Hesah Street exhibited premature reflective cracking within the asphalt layers. The client required a durable, quickly deployable solution to control cracking without deep reconstruction—preserving curb lines and utilities while minimising lane closures on this busy urban corridor.

### TENSAR SOLUTION

Tensar® Glasstex® R60N+C asphalt reinforcement was installed within the overlay to provide high tensile stiffness and crack mitigation, interrupting crack propagation from underlying layers. The approach supported optimised overlay thickness, improved fatigue resistance, and faster paving cycles. The contractor delivered a robust, longer lasting surface with reduced future maintenance and improved ride quality.

## B E N E F I T S

- **Mitigates reflective cracking**, extending overlay service life.
- **Accelerates construction**, minimising traffic disruptions and closures.

# Tensar®

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### PROJECT DETAILS

Application

**Asphalt Reinforcement | No. 555**

Constructed in

**2024**

Client

**Dubai Holding Real Estate L.L.C**

Consultant

**CDM Smith Inc.**

Contractor

**Khansaheb Civil Engineering L.L.C**

Product

**Tensar® Glasstex® R60N+C**



*Glasstex R60N+C installed ensuring sufficient overlapping at joints.*

## PROJECT BACKGROUND

Al Hesah (Hessa) Street functions as a key distribution route through mixed residential and commercial zones, carrying frequent stopstart traffic, utility vehicles, and construction logistics. Over time, the 1.3 km, 9m wide section experienced escalating asphalt distress—particularly reflective cracking from existing joints and patches. Traditional mill and fill cycles were proving shortlived, prompting the need for crack control within the asphalt system rather than repeated surface renewals.

Under the guidance of CDM Smith Inc and executed by Khansaheb Civil Engineering L.L.C, the project team prioritized a surface-focused rehabilitation strategy to avoid extensive excavation, protect fixed levels, and minimize disruption. Tensar® Glasstex® R60N+C, an asphalt reinforcement interlayer, was selected to deliver tensile restraint and interlayer crack mitigation, limiting the upward propagation of existing cracks.

Pioneers of the Middle East Bridges and Tunnels Maintenance L.L.C supplied the material and supported logistics and specification compliance. The result is a durable, smoother running surface designed to extend maintenance intervals, improve whole-life cost, and reduce user delays. By integrating asphalt reinforcement into the overlay, the solution aligns with Dubai's objectives for resilient urban pavements while enabling faster delivery and lower lifecycle carbon compared with deeper reconstruction.



*Paving works in progress after curing and bonding of Glasstex R60N+C*

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