

CASE HISTORY

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USE OF PAVING FABRIC AS A MOISTURE BARRIER FOR PAVEMENT OVERLAY, OVER THE EXISTING OVERLAY FOR AHMEDABAD - VADODARA EXPRESSWAY GUJARAT, INDIA

Pavement Protection

Client:	Products used:
NATIONAL HIGHWAYS AUTHORITY OF INDIA (NHAI)	TECHPAVE-C040 - 140 GSM
Main contractor:	Quantity supplied:
IRB INFRASTRUCTURES DEVELOPERS LTD.	
Manufacturer & Supplier:	Year of construction:
TECHFAB (INDIA) INDUSTRIES LTD.	

Approach Length - Various stretches along the Express Way

Approach Width - 11.5m

Project brief & Challenges:

There is a requirement of rehabilitation of 11.5m wide carriageway on Ahmadabad Vadodara Expressway because of surface deterioration. Now a day's asphalt resurfacing encountered with the major problem of propagation of existing crocodile cracks from old or existing pavements into the new overlay, this phenomenon is well known as reflective cracking. That is because of the shear and tensile stresses induced by the traffic loads, change in temperature, swelling of sub grade due to oozing of moisture through hair cracks. Load induced vertical movements leading to shear stresses in the overlay also contribute to reflective cracking. Reflective cracking in the overlay allows water to percolate into pavement structure and weaken subbase, and contributes too many forms of pavement deterioration, including increased roughness, swelling, spalling etc.

Techfab (India) Industries Ltd submitted a proposal with solution of using, TechPave as an interlayer system, well known as the Paving Fabric, which act as a moisture barrier between the existing and new overlay and prevent the propagation of cracks in new overlay.

Solution:

TechFab India's Paving Fabric (Techpave-C040-140 Gsm) is used as moisture absorbing interlayer membrane for 11.5m wide carriageway. Whole project executed in two stretches of 5m width and one stretch of 1.6m. To reduce the manpower and handling cost, we have supplied material with 5Meter / 1.6 Meter width and 200m length, which reduces overlap also.



TechFab Paving Fabric - Installation



Overlay Placement above TechPave



Compaction after placement of Overlay

Benefits of TechFab India's Paving Fabric (TechPave):

1. Confirming IRC / MORT&H Specification for Paving Fabric
2. TechPave is having very good Asphalt Retention, which is the prime requirement for this application.
3. One of the best, quick and economical solution to protect pavement surface against moisture penetration.



Installed TechFab Paving Fabric



TechFab Paving Fabric - Installation

For further details kindly contact :

TechFab India Industries Ltd.

711/712, Embassy Centre, Nariman Point, Mumbai – 400021

Tel: + 91– 22 - 2287 6224 / 6225 Fax: + 91– 22 - 2287 6218

E: info@techfabindia.com

W: www.techfabindia.com