

ConstruckRoads®

**ConstruckBitumen - Supports building
Roads through any terrain**



Introducing the world's most **economical** and **environment** friendly road making technology on any surface - be it soft dunes, clay or any challenging conditions.

Construck provides unique & innovative solutions for constructing flexible pavements, delivering both reduced construction costs and long term value.

We introduce you to a World of Revolutionary Road Construction

“CONSTRUCKBITUMEN® ROAD CONSTRUCTION”

Salient Features of CONSTRUCKBITUMEN®

- A solution for Oil spills and accumulation of plastic
- Reuses the unusable waste oil
- Reuses non-recyclable plastic
- High sub-grade CBR with in-situ material
- Makes roads out of waste materials.
- Eliminates excavation
- Eliminates external fill of materials thereby reducing negative environmental impact.



ConstruckBitumen is used to stabilize the in-situ soils for road building purposes and therefore eliminate the need to open new borrow pits to excavate and crush stone. Borrow pits opened for road building purposes have all sorts of negative environmental impacts and the use of ConstruckBitumen eliminates all these negative issues.

This also helps in the use of existing Dune or clay soil.



ConstruckBitumen is patently blended from commercially available bitumen but instead of using bitumen, any of the following waste products can be used:

- Waste oil [sludge] from oil refineries
- Crude oil or crude oil spillages
- Non-recyclable Waste plastics

Method of Construction



1. Prepare road to be constructed by ripping in-situ ground material.



2. Spray ConstruckBitumen on prepared in-situ ground.



3. Mix the ConstruckBitumen into the road base using normal construction equipment.



6. Mixing of the Top Layer seal using manual labor.



5. After completion of the mixing and compaction the road may be opened for traffic.



4. Water is added if required to obtain optimum moisture content before compaction.



7. Completed Road with ConstruckBitumen and Top Layer.

Test Results*: Dune Sand Stabilized with ConstruckBitumen

	1.5% Bitumen	3% Bitumen
CBR	93%	140%

Red Ferricrete Gravel Stabilized With ConstruckBitumen

	2%	3%	3.5%
Mod AASHTO kg/m ³	2129	2125	2120
UCS MPa	1782	1590	1151
ITS kPa	197	165	132
E-value MPa		670	
E80 Million		13.8	

* Tested at Lonestar Managed Labs, Sultanate of Oman

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