

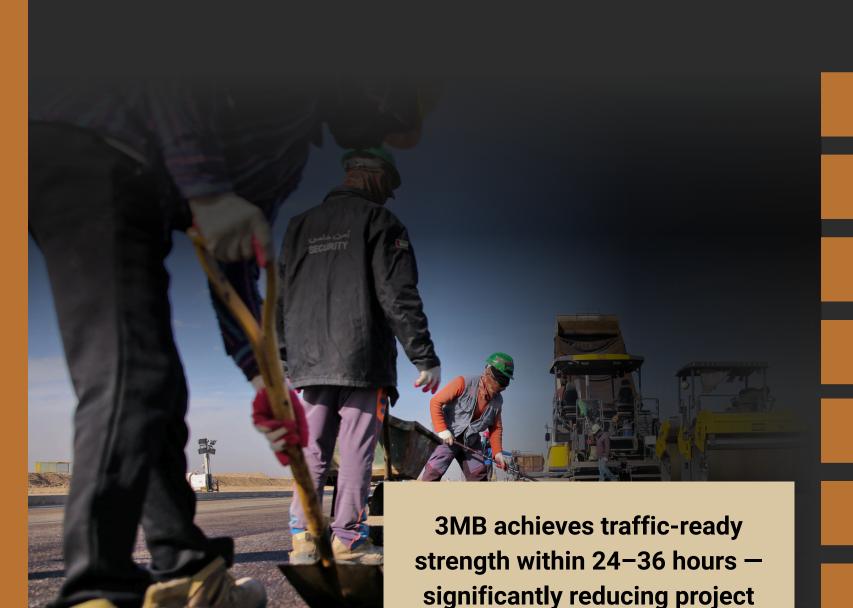


### **ABOUT 3MB**

3MB (Modified Macro Molecular Binder) is a water-soluble, non-asphaltic, non-polymer, biodegradable and environmentally safe soil stabilizer designed to strengthen soils, waterproof subgrades, and reduce dust. It is applied cold, does not require heating, compatible with fresh or sea water, and works across sand, clay, and recycled asphalt (RAP).



### STRENGTHS OF 3MB



downtime compared to cement

stabilization (7-28 days).

**ENHANCES CBR AND COMPRESSIVE STRENGTH OF SOILS** 

REDUCES AGGREGATE TRANSPORTATION NEEDS

**FAST DRYING TIME (24–36 HOURS)** 

COST SAVINGS OF 20-30% IN LABOR AND MATERIALS

NON-TOXIC, BIODEGRADABLE, AND ENVIRONMENTALLY FRIENDLY

COMPATIBLE WITH STANDARD EQUIPMENT AND REQUIRES NO HEATING

EFFECTIVE IN SAND, CLAY, RAP, AND EXPANSIVE SOILS

**CERTIFIED UNDER ASTM/AASHTO STANDARDS** 



## PRIMARY USES OF 3MB

ROAD BASE STABILIZATION

BIKE PATHS AND WALKING TRAILS

DRIVEWAYS AND PARKING LOTS

HELIPADS AND AIRSTRIPS

CONSTRUCTION PADS AND FOUNDATIONS

RETAINING WALL BACKFILL

SLOPE & EMBANKMENT STABILIZATION

**DUST SUPPRESSION** 

**RAILWAY SUBGRADES** 

CANAL AND DITCH LININGS

**AGRICULTURAL ROADS** 

RECYCLED ASPHALT REJUVENATION (RAP)



### 3MB VS CEMENT: KEY COMPARISON

ASPECT	ЗМВ	CEMENT
MATERIAL COMPOSITION	ORGANIC BINDER, BIODEGRADABLE	PORTLAND CEMENT, MINERAL BINDER
APPLICATION PROCESS	COLD APPLIED WITH WATER, NO HEATING REQUIRED	REQUIRES MIXING, CURING, FORMING
DRYING/CURING TIME	24-36 HOURS	SEVERAL DAYS TO WEEKS
LABOR & EQUIPMENT	MINIMAL, STANDARD EQUIPMENT	HIGH LABOR AND SPECIALIZED EQUIPMENT
ENVIRONMENTAL IMPACT	LOW CO2, NO RUNOFF, BIODEGRADABLE	HIGH CO2, ENVIRONMENTAL RUNOFF RISK
COST PER M³ (EST.)	\$68-\$79	\$125-\$150
FLEXIBILITY	REDUCES CRACKING, FLEXIBLE UNDER STRESS	PRONE TO CRACKING, RIGID
SHELF LIFE	1+ YEAR IF STORED ABOVE FREEZING	STABLE IF KEPT DRY
DISPOSAL	SAFE DISPOSAL; NON-HAZARDOUS — RESIDUALS CAN REMAIN IN SOIL OR BE DILUTED WITH WATER	CONCRETE WASTE MUST BE REMOVED, BROKEN UP, AND DISPOSED OF IN DESIGNATED LANDFILLS OR RECYCLED CENTERS
BIODEGRADABLE	YES, FULLY BIODEGRADABLE AND CERTIFIED ORGANIC	NO; CEMENT IS NOT BIODEGRADABLE AND MAY CONTRIBUTE TO LONG-TERM ENVIRONMENTAL IMPACT



# ESTIMATED 3MB VOLUMES

The following estimates are based on a 1-kilometer road, 7 meters wide, using various application depths:

**BIKE PATH (2.1M WIDE, 2" THICK)** 

LOW USE (2" LAYER)

MID USE (4" LAYER)

HIGH USE (FULL-DEPTH 8" STABILIZATION)

106.7 cubic m. mix | ~575 gallons 3MB

373.1 cubic m. mix | ~2,015 gallons 3MB

746.2 cubic m. mix | ~4,030 gallons 3MB

~1,400 cubic m. | ~10,000 gallons 3MB





# HOW TO ACHIEVE THE BEST RESULT

Soil Testing for each application is performed to accomplish the greatest result

CBR results significantly improved through proper soil testing







### THANK YOU

WE APPRECIATE YOUR ATTENTION, WE HOPE THIS INFORMATION IS USEFUL FOR A MORE SUSTAINABLE FUTURE.



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