



TEGO® Addibit DF

Advanced Emulsifier Technology for
High-Performance Bitumen Emulsions.

Presented by Emaar Square General Trading & Contracting Co.

Connecting international chemical mastery with GCC infrastructure.
We supply advanced materials and technical solutions engineered for
the demanding road construction industries across the Middle East.

Engineering the Region's Infrastructure

Emaar Square operates as a reliable regional partner, bridging international manufacturing excellence with complex GCC infrastructure projects.

GCC MARKET COVERAGE

1

Trading & Contracting

Executing high-stakes supply agreements and regional project contracts.

2

Infrastructure Solutions

Comprehensive material systems for civil engineering and road networks.

3

Road Construction Materials

Premium binders, modifiers, and high-performance emulsifiers.

4

Industrial Raw Materials

Strategic supply chain management for localized manufacturing.

5

Technical Support Services

On-site formulation assistance, trial support, and continuous consulting.

Core Technology: TEGO® Addibit DF

A high-performance liquid emulsifier engineered for absolute formulation control.



TEGO® Addibit DF

A highly active liquid emulsifier designed for the production of advanced bitumen emulsions.

Anionic Systems (Alkaline)

Primarily utilized for subsurface building sealing and specialized industrial coatings.

Cationic Systems (Acidic)

The standard for modern road construction, pavement preservation, and infrastructure maintenance.

Chemical Versatility & Processing Superiority

Engineered to eliminate formulation bottlenecks and guarantee field performance.



Applied Infrastructure Integrity

From foundational priming to top-layer preservation, bitumen emulsions powered by TEGO Addibit DF secure every phase of pavement engineering.

Surface / Top Layer

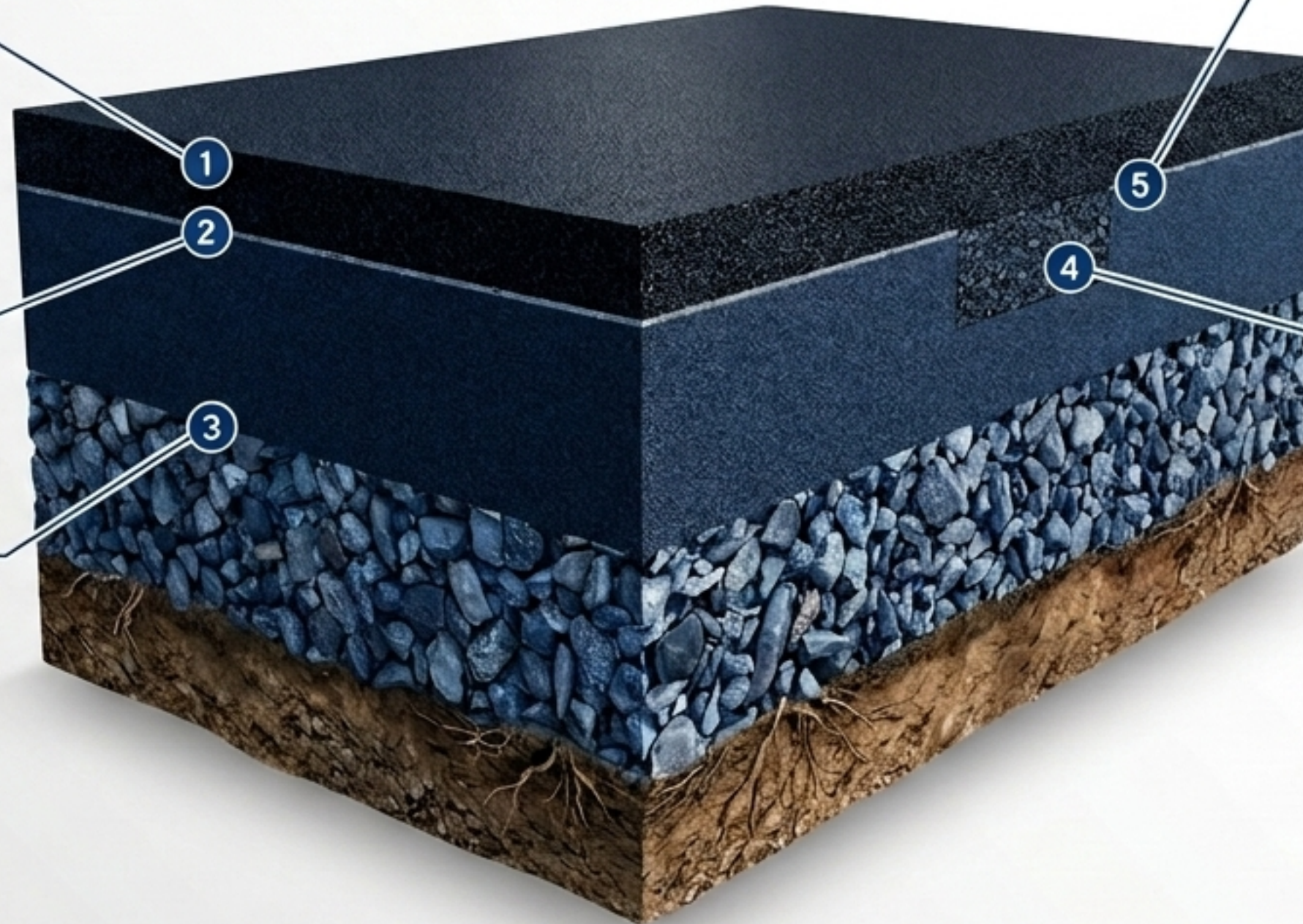
Surface Dressing, Chip Seal, Micro Surfacing, Slurry Seal (Pavement Preservation Programs).

Inter-Layer Bonding

Tack Coat Emulsions (Binding asphalt layers seamlessly).

Base / Granular Layer

Prime Coat Emulsions (Sealing and binding the base course).



Sustainable Engineering

Recycling Emulsions (Rejuvenating milled asphalt).



Structural Maintenance

Cold Mix Asphalt, Road Maintenance Systems.

Technical Performance Passport

Precision-engineered physical properties for predictable, high-shear emulsification.



Active Content & Appearance

~30%

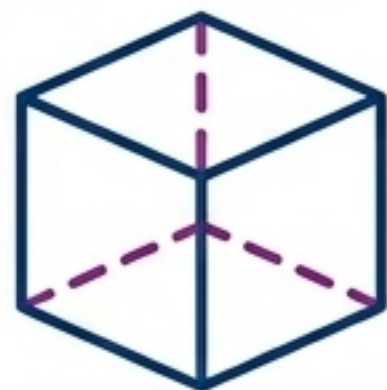
Active Content | Clear, Yellowish Liquid.



Viscosity

18 – 23

mPa·s (at 20 °C) | Low viscous profile for optimal pumping.



Density

~1.00

g/cm³ (at 20 °C).



pH Tolerance

4.0 – 6.0

(Neat product).



Storage Stability: Shelf Life is a minimum of 1 year in closed containers. **Note:** At storage temperatures below 5°C, the product may become cloudy. This process is fully reversible and does not adversely affect chemical performance.

Slide C. Formulating for Field Application

Baseline guide formulations. Final designs must be optimized through rigorous laboratory evaluation against local GCC specifications.

Anionic Base Emulsion (Building Sealing)	
Bitumen (B 70/100 E)	60.00 %
TEGO® Addibit DF	1.50 – 2.50 %
NaOH	0.20 %
Inorganic Thickener (e.g., Bentonit)	0.80 %
TEGO® Antifoam AS 10	0.05 – 0.10 %
Water Ad	100.00 %
Target pH	Approx. 12

Cationic Bitumen Emulsion (Road Construction)	
Bitumen (B 50/70)	50.00 – 60.00 %
TEGO® Addibit DF	0.60 – 1.50 % (>1% for recycling)
Water Ad	100.00 %
Acid Adjustment	Conc. HCl
Target pH	Approx. 2 – 4

The Strategic Choice for GCC Infrastructure

TEGO® Addibit DF delivers compounding value across the entire pavement lifecycle.



Operational De-Risking

Reduces plant operational challenges and prevents costly batch failures through extreme emulsion stability.



GCC Climate Resilience

Reliable field performance under demanding Middle Eastern temperature extremes and heavy traffic loads.



Unrestricted Formulation Design

Unlocks flexible formulation design, allowing plants to pivot rapidly between cationic and anionic demands.



Sustainable Preservation

Directly supports advanced, sustainable pavement preservation programs, extending asset lifecycles and reducing total infrastructure costs.

Plant-Level ROI & Production Advantages

Empowering emulsion producers with chemistry that protects the bottom line.

Input (Risk Reduction)

Reduced Production Risks. Wide operating windows and thickener compatibility drastically lower the chance of coagulation or tank spoilage.

Process (Efficiency & Consistency)

Production Efficiency: Low viscosity ensures smooth pumping, while broad workability allows for high-throughput in colloid mills.

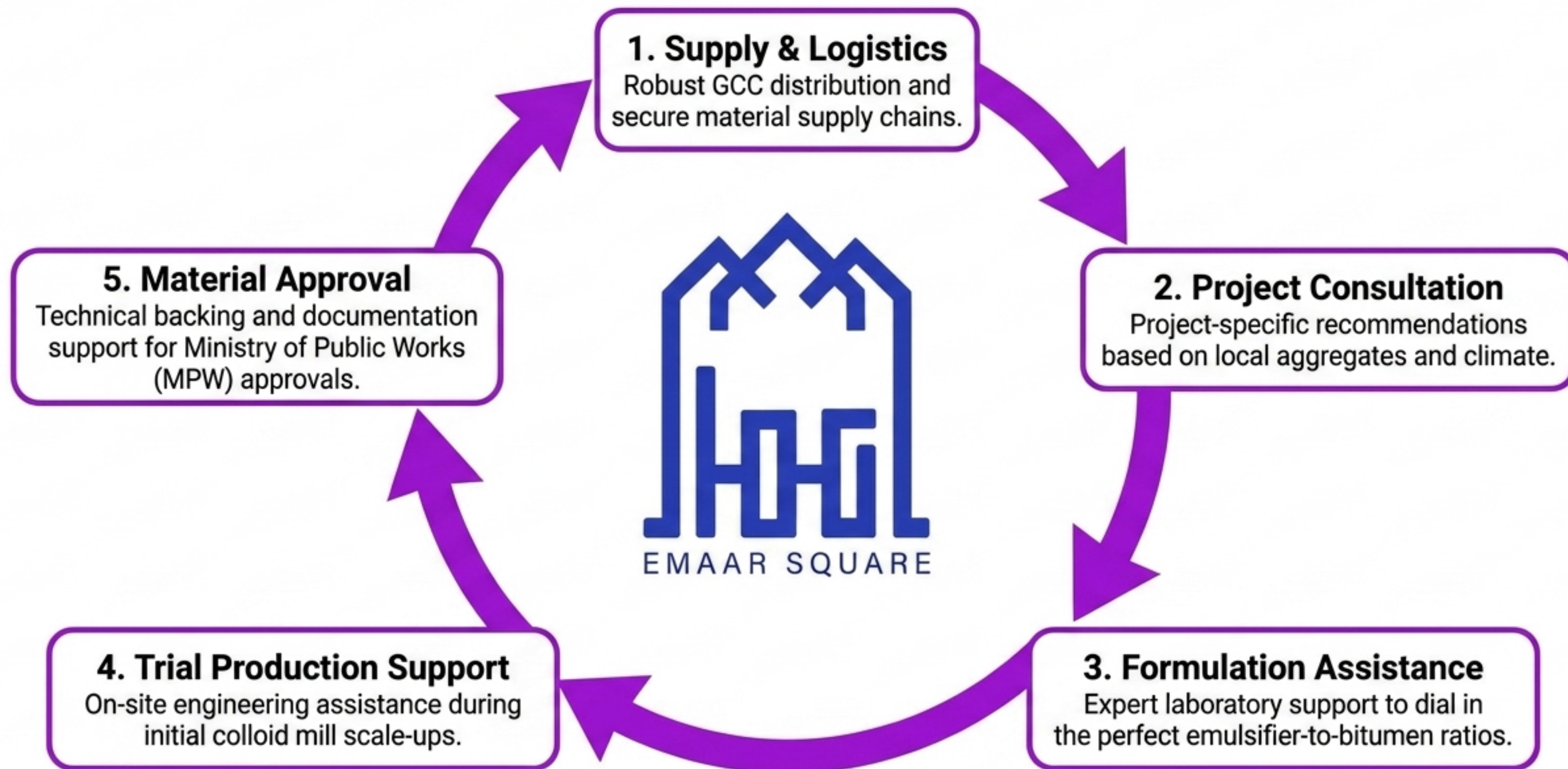
Quality Consistency: Batch-to-batch chemical reliability ensures predictable field behavior every time.

Output (Long-Term Reliability)

Operational Reliability. Enhances storage stability of the final emulsion, preventing premature breaking in silos or transport tankers.

The Emaar Square Technical Ecosystem

We do not simply supply chemistry; we engineer success through comprehensive, localized support.



Paving the Future of the GCC

Modern road networks demand uncompromising chemical foundations. By combining global mastery in emulsifier technology with Emaar Square's deep regional infrastructure expertise, TEGO® Addibit DF stands as the definitive solution for advanced pavement preservation.

Engineered for consistency. Designed for resilience.
Ready for your next high-performance emulsion design.

EMAAR
SQUARE