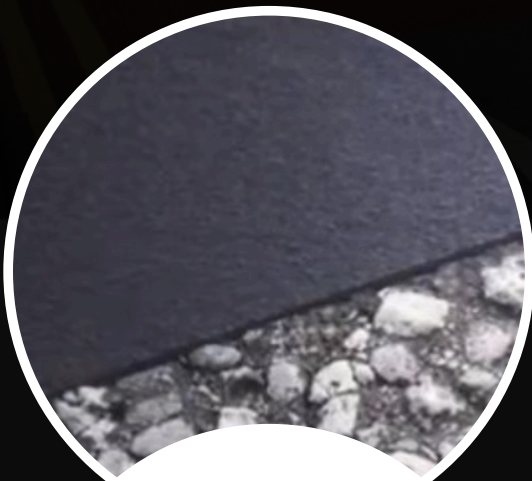


# PMCO™

**AN ECO-FRIENDLY PRODUCT  
THAT REDUCES  
ENVIRONMENTAL IMPACT  
WHILE ENHANCING  
PERFORMANCE.**

A GERMAN / CANADIAN ROAD  
TECHNOLOGY THAT  
REVOLUTIONIZES THE TREATMENT  
OF PAVEMENT PRESERVATION  
PRODUCTS SINCE THE INCEPTION  
OF ASPHALT.

**ART**  
**ARABIAN**  
ROAD TECHNOLOGY



## SPECIAL FEATURES

- ✓ Surface that caps the asphalt & concrete roads.
- ✓ Prevent water and UV from further destroying the road way surface.
- ✓ Increases road surface friction.
- ✓ Ideal for new and old roads.
- ✓ High temperature resistance 150°C+.
- ✓ Controls gravel dislodgement.
- ✓ Quick road rehabilitation.



**No one ever thought that  
you could take an (2.5 mm)  
of Polymer Modified  
Cementitious Overlay and  
make asphalt road a 15-year  
product.**

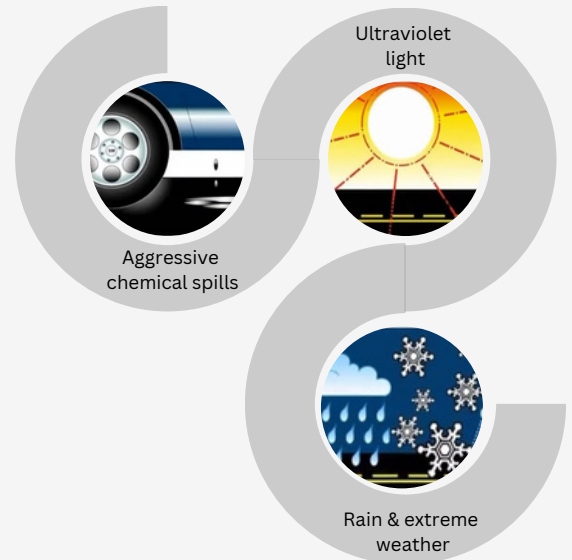






## INTRODUCTION

Asphaltic pavements suffer from the effects of environmental and other exposure from ultraviolet light, water, aggressive chemical spills, and abrasion. Water and UV exposure strips the pavement of its asphaltic binder, which causes fading, hardening and brittleness (oxidation). This condition leads to cracking, subsequent crack wall erosion, and asphalt aggregate being freed from its binder, causing deterioration of the pavement surface. The pavement accordingly suffers reduced service life, requiring additional overlays every six years.



## ABOUT **PMCO**<sup>TM</sup>

Polymer Modified Micro Cementitious Overlay **PMCO**<sup>TM</sup>, manufactured in Dubai-United Arab Emirates by **Arabian Road Technology - (ART)**, is a transformative solution meticulously designed to address the myriad challenges that afflict traditional asphalt surfaces. **PMCO**<sup>TM</sup> serves as a shield, safeguarding the wearing surface for an impressive span of 15-plus years, setting an unparalleled benchmark in durability and longevity. Backed by ART confidence in its performance, ART proudly offers a substantial conditional 5-year delaminating warranty, reflecting unwavering commitment to quality and reliability.



PMCO is crafted under ISO 9001:2015 standards, guaranteeing stringent quality at every stage.

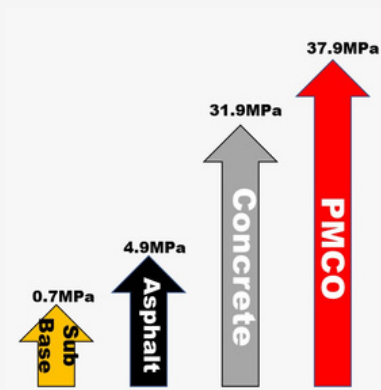
## WHY **PMCO**<sup>TM</sup>

- **Protective Shield:** **PMCO**<sup>TM</sup> surface acts as a protective shield, preserving asphalt or concrete roadways by preventing water and UV damage, thus extending their lifespan.
- **Enhanced Durability:** Increases road surface friction, ensuring safer driving conditions and reducing the wear and tear caused by regular traffic.
- **Versatile Application:** Ideal for both new and old roads, making it a cost-effective solution for maintaining and fortifying existing infrastructure while being an excellent choice for new road construction.
- **Long-Term Preservation:** Offers a proactive approach to road maintenance, safeguarding investments by mitigating degradation factors and minimizing the need for frequent repairs.
- **Sustainable Solution:** Promotes sustainability by elongating the life cycle of road surfaces, reducing the environmental impact of continuous repairs and replacements.
- **Improved Safety:** Enhances road grip and traction, contributing to increased safety for drivers and pedestrians, particularly in adverse weather conditions.



PMCO™ NUMBERS

PMCO		28Days Curing		
No	Item	N/mm2	Psi	mm3
1	Compression Strength	37.90	5,500.00	-
2	Flexural Strength	7.80	1,132.00	-
3	Tensile Adhesion	2.00	290.00	-
4	Shear Strength	6.20	899.00	-
5	Abrasion Resistance	-	-	275.00



Compression Strength Comparison

\*Each of the aforementioned tests underwent rigorous evaluation within the confines of an ISO17025:2017 accredited testing laboratory operated by Wacker Chemicals. The test results provided are indicative of the measured values under specific conditions. Variations may occur based on job-specific factors, environmental variables, and site conditions.

PRODUCT APPLICATIONS

01 Maintenance

Old Asphalt streets

02 Highways

Entry and exit points

03 Bridges & Tunnels

High friction and reflection surface roads

04 Parking Lot

All assorted colors

05 Refineries

Oil rigs, docks, ships landing pad

06 Marking

Airport & road marking

07 Decorative marking

Urban beautification projects

08 Airports

Protection overlay for runway, taxiway & tarmac

09 Marine

Aluminum, steel, fiberglass, wood, etc. surfaces

10 Road Cracks

Permanent road crack treatment, 5-fold asphalt strength

11 Road Potholes

Permanent potholes treatment, 5 fold asphalt strength

12 Industrial Roads

Extreme heavy duty industrial and mining road surfaces





"PMCO Products underwent rigorous testing in the UAE, a pioneering feat in Gulf nations. Enduring 120+ ton trucks, it tackled extreme road conditions worldwide—intense temperatures, friction, stops, heavy loads, and rotations."

## KEY **PMCO**<sup>TM</sup> PRODUCT FEATURES

- Multi-Colored Options: Choose from yellow, white, black, blue, red, and green.
- Solar Reflection: Cools surfaces by 10-15°C, ideal for lighter shades.
- High-Temperature Resistance: Withstands over 150°C+ Temperature.
- Extended Lifespan: Extends road lifespan to 15+ years.
- Resilient Protection: UV, liquid spills, and chemicals.
- Enhanced Road Safety: Prevents water pooling, maintains friction.
- Improved Friction Strength: Boosts traction on key road areas.
- FOD Prevention: Controls gravel dislodgment.
- Quick Road Rehabilitation.
- Cost-Effective Maintenance: Slashes costs by up to 50%.
- 5-Year Warranty: Guarantees against peeling and separation.
- Versatile Adherence: Bonds with various surfaces, shielding against moisture, UV, rust, chemicals, and weathering.



## APPLYING **PMCO**<sup>TM</sup>

Transforming PMCO's materials is a breeze! Follow these simple steps to unlock their potential:

1. Measure out the desired quantity of **PMCO**'s-OL Dry Powder based on thickness required.
2. Calculate their quired percentage of water based on the weight of the Dry Powder.
3. Add the calculated amount of water to the Dry Powder.
4. Add **PMCO**<sup>TM</sup>-CR (the required chlorinated rubber color on top of **PMCO**<sup>TM</sup>-OL). You've created the finished PMCO's-OL system material\*.

\*For expert guidance on professional applications, consult ART for comprehensive training to qualified distributors, ensuring quality performance, a seamless and polished finish every time.

## **PMCO**<sup>TM</sup> RANGE OF PRODUCTS:

1	PMCO-OL	Polymer modified micro cementitious overly
2	PMCO-AC	Pure hybrid acrylic polymer (HAP)
3	PMCO-Bd	Modified Polymer for surface bonding
4	PMCO-PH	Polymer modified, micro concrete, potholes filler
5	PMCO-RC	Polymer modified, micro concrete, crack filler
6	PMCO-SC	Polymer modified high strength structural grout
7	PMCO-CR	Modified polymer with chlorinated rubber-sealer
8	PMCO-Mark	Modified acrylic colors
9	PMCO-CT	Self-crosslinking hybrid acrylic polymer-sealer

