

BITUMEN DERIVATIVES  
PRODUCT CATALOGUE

# For the Roads of Today and Tomorrow



IndianOil Total Pvt. Ltd.

*(Joint venture of IndianOil and TotalEnergies Marketing Services)*



## About Us

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Road construction sector in India is undergoing a paradigm shift with a renewed focus on sustainable infrastructure development. Modern and emerging technologies are instrumental in changing the face of Indian road construction. This will lead to the rise of demand for improved material for road construction.

IndianOil Total Private Limited has been formed in 2020 as a 50:50 Joint Venture Company between TotalEnergies, which is the one of the biggest producers and supplier of bitumen products in Europe and Indian Oil Corporation, the country's leading refiner and retailer of petroleum products.

The venture produces and markets high quality bitumen derivatives for India's booming road construction industry and is headquartered in Mumbai. The commercial operation of the company has commenced in March 2021.

ITPL combines the Marketing and R&D strengths of both IndianOil and TotalEnergies to manufacture and market innovative bitumen formulations and superior quality products.

With our culture of innovation, safety, and sustainability, ITPL is poised to contribute significantly to the pavement sector in India.



## Our Promoters



**IndianOil**

### **Indian Oil Corporation**

Indian Oil Corporation (IOCL) is India's highest-ranked energy PSU in fortune global 500 listing. IOCL is an integrated energy major with a presence in almost all the streams of oil, gas, petrochemicals, and alternative energy sources.

IOCL is the largest producer and market leader in viscosity grade Bitumens in India with a state-of-the-art R&D center based in Faridabad.



**TotalEnergies**

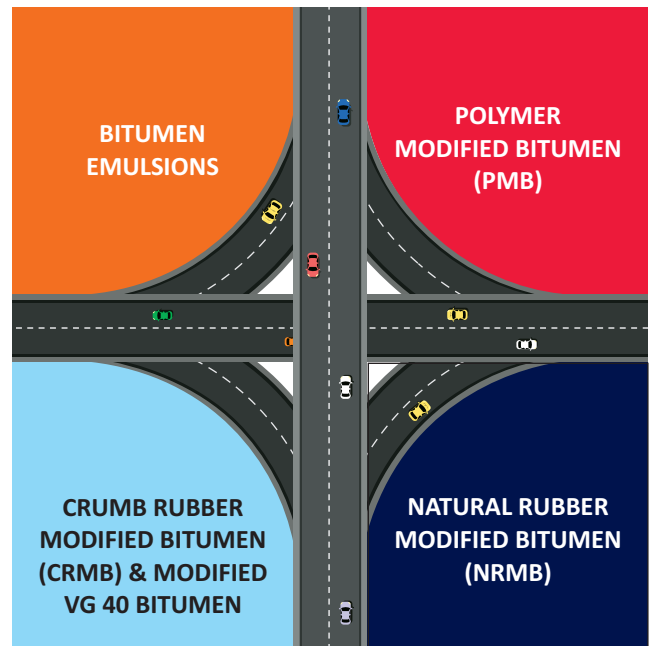
### **TotalEnergies**

TotalEnergies is a broad energy company that produces and markets energies on a global scale, oils and biofuels, natural gas and green gases, renewables, and electricity.

Active in more than 130 countries, TotalEnergies puts sustainable development in all its dimensions at the heart of its projects and operations to contribute to the well-being of people.

# A Comprehensive Range of Bitumen Derivatives

ITPL offers a comprehensive range of bitumen derivative products for all the requirements of road construction. Our products are manufactured in strict accordance with the highest quality and safety standards in adherence to our HSEQ policy.



## Bitumen Product Range

### EMULSION – RAPID SETTING

DURAPAVE EMULSIS RS1

### EMULSION – MEDIUM SETTING

DURAPAVE EMULSIS MS

### EMULSION – SLOW SETTING

DURAPAVE EMULSIS SS1  
DURAPAVE EMULSIS CSS-1h (ASTM)  
DURAPAVE EMULSIS SS2

### COLD MIX EMULSION

DURAPAVE EMULSIS CM  
DURAPAVE EMULSIS CM MS  
DURAPAVE EMULSIS CM MS2  
DURAPAVE EMULSIS CM SS2

### POLYMER MODIFIED EMULSION

DURAPAVE EMULSIS RS PoMo  
DURAPAVE EMULSIS SS PoMo

### MODIFIED VG 40 BITUMEN

VG 40 M

### MICRO SURFACING EMULSION

DURAPAVE EMULSIS MiSu

### POLYMER MODIFIED BITUMEN (PMB)

Styrelf® PMB 40  
Styrelf® PMB 70  
Styrelf® PMB 40 Super  
Styrelf® PMB 40 Hyma  
Styrelf® PMB 64-10 S/H/V/E  
Styrelf® PMB 70-10 S/H/V/E  
Styrelf® PMB 76-10 S/H/V/E  
Styrelf® PMB 82-10 S/H/V/E  
Styrelf® PMB 76-22 S/H/V/E

A technology of Total

### CRUMB RUBBER MODIFIED BITUMEN (CRMB)

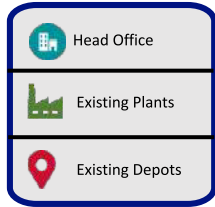
CRFlex® 55 / CRFlex® 60

### NATURAL RUBBER MODIFIED BITUMEN (NRMB)

NRFlex 40 / NRFlex 70



# Manufacturing Facilities & Depots



To ensure an efficient and reliable supply of products to the customers, ITPL has set up manufacturing facilities & depots at strategic locations. At present, ITPL has full-fledged state-of-the-art manufacturing plants at Jodhpur in the state of Rajasthan, Haldia & Howrah in the state of West Bengal, Mathura in the state of Uttar Pradesh, Vadodara in the state of Gujrat and Chennai in the state of Tamil Nadu.



# Research and Development

ITPL offers a detailed technical evaluation of a complete range of products to the customers. ITPL's state-of-the-art labs are equipped with the latest equipment for analysis of Performance Grade Binders (PMB/CRMB) with DSR (Dynamic Shear Rheometer) and short term and long-term aging process through RTFO (Rolling Thin Film Oven) / PAV (Pressure Aging Vessel).



# Technical Assistance

The Technical Assistance to customers is a result of in depth experience and expertise of IndianOil and TotalEnergies which includes:

- Training on storage, handling, and applications of the products.
- Technical Assistance to define the best conditions to obtain the required performance of the products.
- Laboratory support for optimal mix design.
- Technical support on Hot Mix and Cold Mix processes from production to applications.







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## EMULSION – SLOW SETTING

### **DURAPAVE** Emulsis SS1 (IS)

#### APPLICATIONS:

DURAPAVE EMULSIS SS1 is specially designed oil based bituminous emulsion with low viscosity extended setting time and stability with cement. It is an ideal product for coating WMM/WBM surfaces. The product meets the specifications as per IS 8887:2018.

**PRODUCT CERTIFICATIONS:** Bureau of Indian Standards (BIS): CM/L- No-3015129

#### BENEFITS:

- High penetration of the existing base course.
- Sealing of loose mineral particles.
- To harden the base course.

#### TECHNICAL SPECIFICATIONS

Characteristics	Test Method	Unit of Measurement	Specification	
			Min	Max
Residue on 600 micron Sieve in % by Mass	IS 8887-2018 ANNEX-B	%	–	0.05
Viscosity at 25°C by Saybolt Furol Viscometer	IS 3117	Sec	20	100
Coagulation of emulsion at low Temp.	IS 8887-2018 ANNEX-C	–	NIL	NIL
Storage stability after 24 Hrs.	IS 8887-2018 ANNEX-D	%	–	2
Miscibility with water	IS 8887-2018 ANNEX-H	–	Immiscible	Immiscible
Distillation, By Volume at:				
a) 190°C	–	%	20	55
b) 225°C	–	%	30	75
c) 260°C	–	%	40	90
d) 316°C	–	%	60	100
e) Residue at 360°C	IS 1213-1978	%	50	–
Water Content, by Mass	IS 1211-2018	%	–	20
Test on Residue:				
a) Solubility in Trichloroethylene	IS 1216-1978	%	98	–

**PACKING:** DURAPAVE EMULSIS SS1 is available in • Bulk • 185 Kg • MS Drum • RC Drum • New HDPE Drum

#### FOR TECHNICAL QUERIES, PLEASE CONTACT:

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# EMULSION – SLOW SETTING

## DURAPAVE Emulsis SS2

### APPLICATIONS:

DURAPAVE EMULSIS SS2 a specially designed tailor-made water based bituminous emulsion with medium viscosity and extended setting time and stability with cement. The product meets the specifications as per IS 8887:2018.

**PRODUCT CERTIFICATIONS:** Bureau of Indian Standards (BIS): CM/L- No-3015129

### BENEFITS:

- Binds loose aggregates.
- Good penetration in to the base course.
- Makes the base course water resistant.

### TECHNICAL SPECIFICATIONS

Characteristics	Test Method	Unit of Measurement	Specification	
			Min	Max
Residue on 600 micron Sieve in % by Mass	IS 8887-2018 ANNEX-B	%	–	0.05
Viscosity at 25°C by Saybolt Furol Viscometer	IS 3117	Sec	30	150
Coagulation of emulsion at low Temp.	IS 8887-2018 ANNEX-C	–	NIL	NIL
Storage stability after 24 Hrs.	IS 8887-2018 ANNEX-D	%	–	2
Particle Charge	IS 8887-2018 ANNEX-E	–	Positive	Positive
Miscibility with water	IS 8887-2018 ANNEX-H	–	No-coagulation	No-coagulation
Test on Residue:				
a) Residue by Evaporation	IS 8887-2018 ANNEX-J	%	60	–
b) Penetration of Residue at 25°C/ 100gm/ 5Sec	IS 1203-1978	–	60	120
c) Ductility of Residue at 27°C	IS 1208-1978	Cm	50	–
d) Solubility in Trichloroethylene	IS 1216-1978	%	98	–

**PACKING:** DURAPAVE EMULSIS SS2 is available in • Bulk • 200 Kg • MS Drum • RC Drum • New HDPE Drum

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EMULSION - SLOW SETTING

**DURAPAVE Emulsis CSS1 (H)**

### APPLICATIONS:

DURAPAVE EMULSIS CSS-1H is used as:

- Prime Coat
- Fog seal/crack seal
- Slurry seal

The product meets the specifications as per ASTM D2397-13.

**PRODUCT CERTIFICATIONS:** Bureau of Indian Standards (BIS): CM/L- No-3015129

### BENEFITS:

- Excellent penetration into miniature pores of sub bases.
- Extended breaking easy spray.
- Penetrate the cracks & crevices and impart strength to the layers.
- Bonds well to cool, damp substrates/surfaces and Low temperature cure.
- Bind loose aggregates together strongly.
- Highly adhesive with multiple applications.

### TECHNICAL SPECIFICATIONS

Characteristics	Test Method	Unit of Measurement	Specification ASTM D2397-13	
			Min	Max
Residue on 850 micron Sieve in % by Mass	ASTM D6933	%	–	0.10
Viscosity at 25°C by Saybolt Furol Viscometer	ASTM D244	Sec	20	100
Storage stability after 24 hrs	ASTM D6930	%	–	1
Partical Charge	ASTM D244	–	Positive	Positive
Stability to mixing with cement (% Coagulation)	ASTM D6935	%	–	2
Test on Residue:				
a) Residue by Evaporation	–	%	57	–
b) Penetration of Residue at 25°C/ 100gm/ 5Sec	–	–	40	90
c) Ductility of Residue at 27°C	ASTM D244	Cm	40	–
d) Solubility in Trichloroethylene	–	%	97.5	–

**PACKING:** DURAPAVE EMULSIS CSS-1H is available in • Bulk • 200 Kg • MS Drum • RC Drum • New HDPE Drum

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