

TM

PFP

PREMIUM QUALITY BITUMEN EMULSION



सुगम पथ

उन्नत राष्ट्र

## FACTORY ADDRESS:

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## REGISTERED OFFICE:

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P3 India



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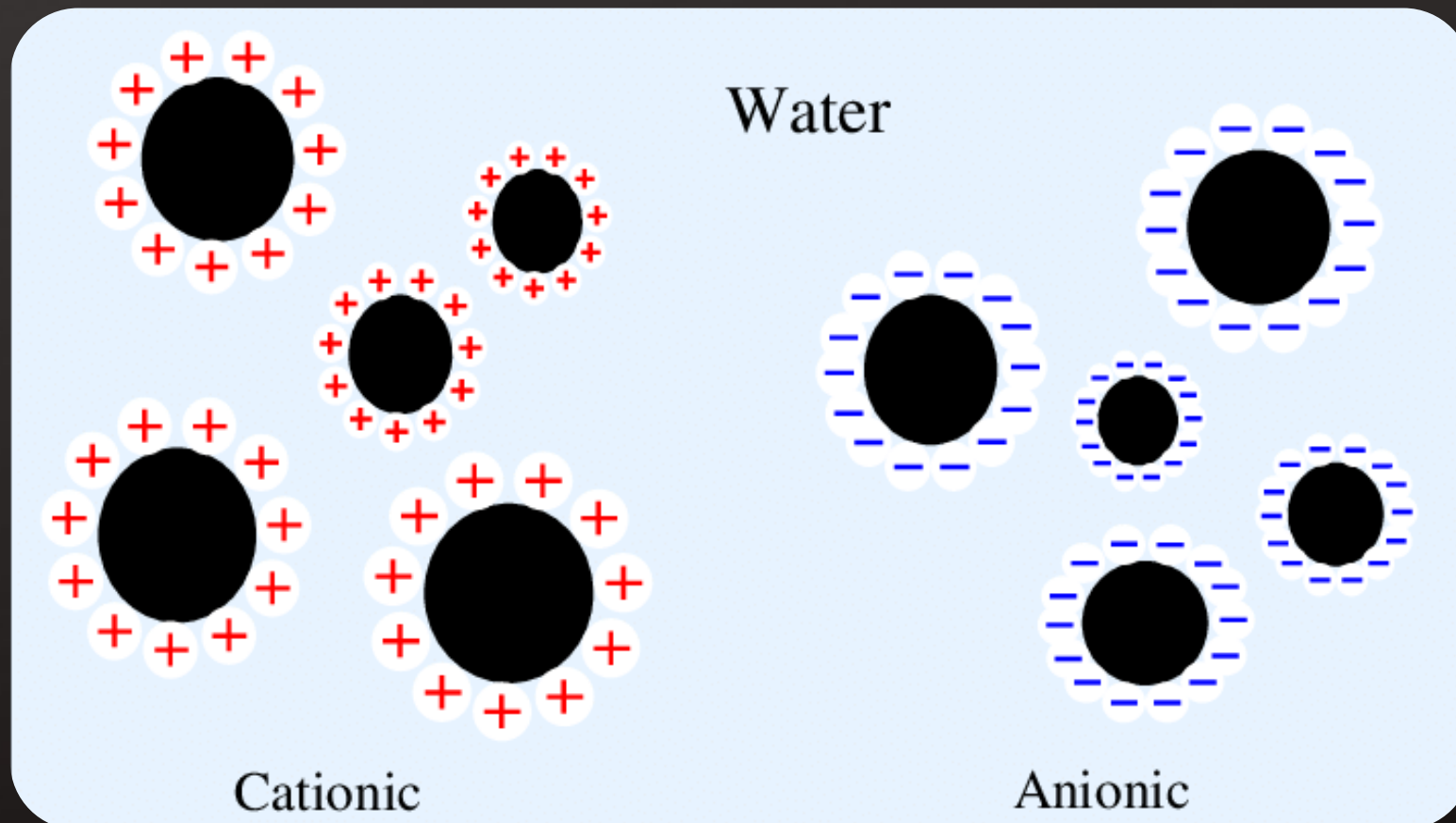


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[www.p3india.in](http://www.p3india.in)



**BITUMEN EMULSIONS** are usually two-phase system consisting of two immiscible liquids, bitumen and water stabilized using emulsifiers. Based on their charges, Bitumen emulsions can be further classified into Cationic & Anionic emulsions.



At **Pratishtha Pragati Petrochem**, we are manufacturing a range of premium quality Cationic bitumen emulsions (Rapid Setting, Slow Setting, Medium Setting etc.)

### **Why Pratishtha Pragati Petrochem?**

1. BIS Certified.
2. Wide range of emulsions including RS-1, RS-2, MS, SS-1, SS-2, SS-1 ASTM & Specialized emulsions available.
3. Situated at Jamua-Koderma SH-13.
4. Cutting-edge emulsion manufacturing facility with custom designed colloidal mill for premium quality bitumen emulsion.
5. Expert technical team.
6. Emulsion production capacity up to 100 MT/Day.
7. In-house laboratory facility.
8. Allied facilities including weighbridge, bulk storage facility up to 60 MT for bitumen emulsion, computer accounting system etc.









## BITUMEN EMULSION QUALITY (IS:8887-2018)

S.NO	CHARACTERISTICS	GRADE OF EMULSION				
		RS-1	RS-2	MS	SS-1	SS-2
1	Residue on 600 micron IS Sieve, percent by mass, Max	0.05	0.05	0.05	0.05	0.05
2	Viscosity by Saybolt Furol Viscometer, Seconds					
	1) At 25° C	-	-	-	20-100	30-150
	2) At 50° C	20-100	100-300	50-300	-	-
3	Coagulation of Emulsion at low temperature	Nil	Nil	Nil	Nil	Nil
4	Storage Stability after 24h, percent, Max	2	1	1	2	2
5	Particle Charge	Positive	Positive	Positive	-	Positive
6	Coating ability & Water resistance	-	-	Good	-	-
7	Stability to mixing with cement (% coagulation), Max	-	-	-	-	2
8	Miscibility with Water	No Coagulation	No Coagulation	No Coagulation	Immiscible	No Coagulation
9	Test on Residue					
	a) Residue by evaporation, percent, min	60	67	65	-	60
	b) Penetration 25°C/100 gm/5 Sec	80-150	80-150	60-150	-	60-120
	c) Ductility 27°C/cm, Min	50	50	50	-	50
	d) Solubility in tricholothylene, percent by mass, Min	98	98	98	98	98
10	Distillation in percent volume of distillate recovered at 360°C 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, percent, min	-	-	-	50	-
11	Water Content, percent by mass, Max	-	-	-	20	-



In-house laboratory for better QC & QA



## OUR PRODUCTS

**Rapid setting Bitumen Emulsion:** It sets quickly in contact with aggregate. Breaking as well as setting time are less in rapid setting emulsions. It is used for Tack coat & Surface dressing applications.



**Medium Setting Bitumen Emulsion:** It is designed for mixing with coarse aggregates and is ideal in premix. Product is so formulated that it does not break immediately upon contact with aggregates and provides few minutes of workable time for mixing aggregates.

**Slow Setting Bitumen Emulsion:** It consists of a special type of emulsifier which slows the process of water evaporation. These types of emulsifiers are relatively stable. These are used in applications such as Prime Coat, Fog Seal, Crack Seal etc.



**Cold Mix Bitumen Emulsion:** Cold mix is formed of mineral aggregate, water and cold mix bitumen emulsion. These are used for Pothole filling, Wheel rutting, Utility cuts etc.

### **Micro-surfacing Bitumen Emulsion:**

The emulsion for micro-surfacing is required to meet IRC/ISSA specifications. A requirement of 3% of solid of rubber/polymer by weight of bitumen in the emulsion is always needed for compliance.







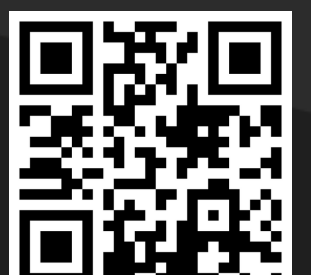
## PRODUCTS WE OFFER,

1. RS-1, RS-2
2. MS
3. SS-1, SS-2, & SS-1: ASTM
4. Cold Mix Bitumen Emulsion
5. Micro-surfacing Bitumen Emulsion

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