Industrial Bitumen

Industrial Oxidised Bitumen



Description

Industrial Bitumen is a dark, petroleum residue modified by the oxidation process. Its consistency ranges from highly viscous to solid. Industrial Bitumen is a safe and inexpensive material which has multiple uses in industry and a wide range of applications and has characteristics of Waterproofing, Plasticity, Adhesion and resistance towards acid and alkalis. It also makes an efficient electrical insulator, because it has excellent dielectric strength.

Characteristics

Characteristics of Industrial Bitumen is given in the Annexure A attached herewith.

Application

 In building floors: damp-proofing and waterproofing; acid-alkali resistant flooring, conductive flooring; sparkless flooring.

In building / roofing : manufacture of roofing felts, adhesives, primers, damp-proof coating compositions, liquid roof coatings, plastic cements and hot carriage roofing compounds.

: canal lining, embankment, hydraulic structure, dam lining protection and sand stabilisation.

: construction and maintenance.

: lamination, manufacture of caulking compounds, joint fillers, rubber extenders, battery sealing compounds, cable filling compounds etc.

Advantages

Easy to apply.

Roads

Excellent durability.

Hydro projects

Industrial use

Comparatively cheaper and widely available.

Application Methodology

- Heat gradually till the Industrial bitumen melts completely. Heat the required quantity only.
- Continuously stir to prevent local overheating. A thermometer should be used to ensure that the bitumen is not overheated or it will lose much of its properties.
- Industrial Bitumen brought up to its normal working temperature is applied with a brush or by pouring and spreading using a rubber squeegee.

Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 200 kg drums or 25 kg cakes.

Storage

Keep in cool and dry place in air tight containers under shed away from heat

Specification of Bitumen

Bitummen	St	Straight Grade*	e*				Industrial Grade **	Grade **				Method of
	30/40	20/30	10/20	06/08	110/120	85/40	85/25	90/15	115/15	135/10	155/6	Test
Specific Gravity at 27 ^o C minimum	66.0	1.00 - 1.05	1.03 - 1.05	1.03 - 1.08	1.04 - 1.09	1.00 - 1.05	1.00 - 1.05	1.00 - 1.06	1.00 - 1.06	1.02 - 1.07	1.02 - 1.07	IS:1202:1978
Flash Point Ppnsky marten Cloused Type, ^o C minimum	175	175	200	200	200	225	225	228	225	225	228	IS:1202:1978
Softening Point, ^O C	20 - 60	50 - 70	65 - 80	06 - 08	110 - 120	80 - 90	96 - 08	85 - 100	110 - 120	130 - 140	150 - 160	IS:1202:1978
Penetratin at 25 $^{ m o}$ C, 100g, 5 sec, in 1/100 cm	30 - 40	20 - 30	10 - 20	6 - 12	3 - 7	35 - 45	20 - 30	10 - 30	8 - 20	7 - 12	2 - 10	IS:1202:1978
Ductility at 27 ^o C, in cm minimum	12	10	2.5	-	-	3	3	2	2	1	0	IS:1202:1978
Loss on heting, present by weight, maximum	1	0:30	0:30	0.10	0.10	0:30	0:30	0:30	0:30	0:30	0:30	IS:1202:1978
Percent by weight soluble in carbon-disulphide, min	66	66	66	66	66	66	66	66	66	66	66	IS:1202:1978
Industrial Uses												
Water Proofing												
Lamination Industry												
Bituminous Paper												
Paints, Varnishes and Japans												
Cold Storage & Refrigeration												
Printing Inks												
Electrical Cable Junction Boxes												
Electrical Cable Manufacture												
Battery Containers												
Battery Sealing Compount												
Rubber Industry												
Pipe Coating												
Joint Filling Compounds												
Mastic for flooring & roofing												
Damp Proof Courses												
Coal Briquetting												

Current Production is Non-Ductile** (Method A)

** As per IS:702/1998

* As per IS 73/2006

Application for Use





Product Rang€

■Waterproofing & Insulation ■Road Surfacing ■Sealants & Adhesives ■Pipeline Coatings ■Protective/Anti-Corrosion Coatings ■Epoxy and Flooring ■ Grouts and Admixtures (GARA) $\blacksquare RestoFix - Repair/Rehabilitation \quad \blacksquare Other Construction Chemicals$

