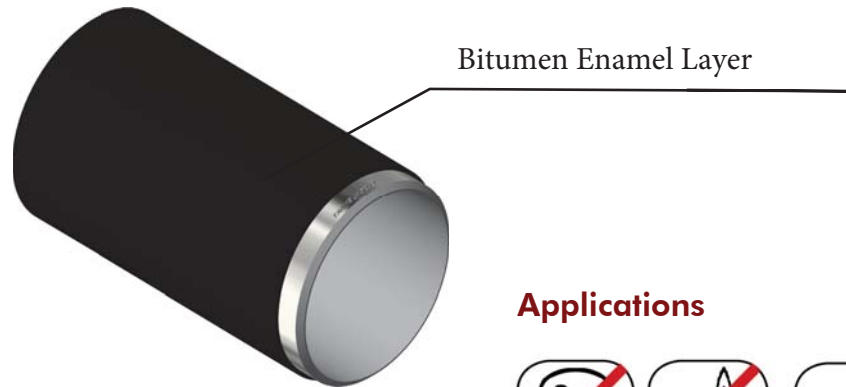


## BIE PIPE

Bitumen Enamel Coating



### Product Description

Bitumen Enamel Coating is a plant applied durable coating based on modified bitumen reinforced with fibrous material. It is used for the protection of corrosion and erosion of pipes.

### Applications

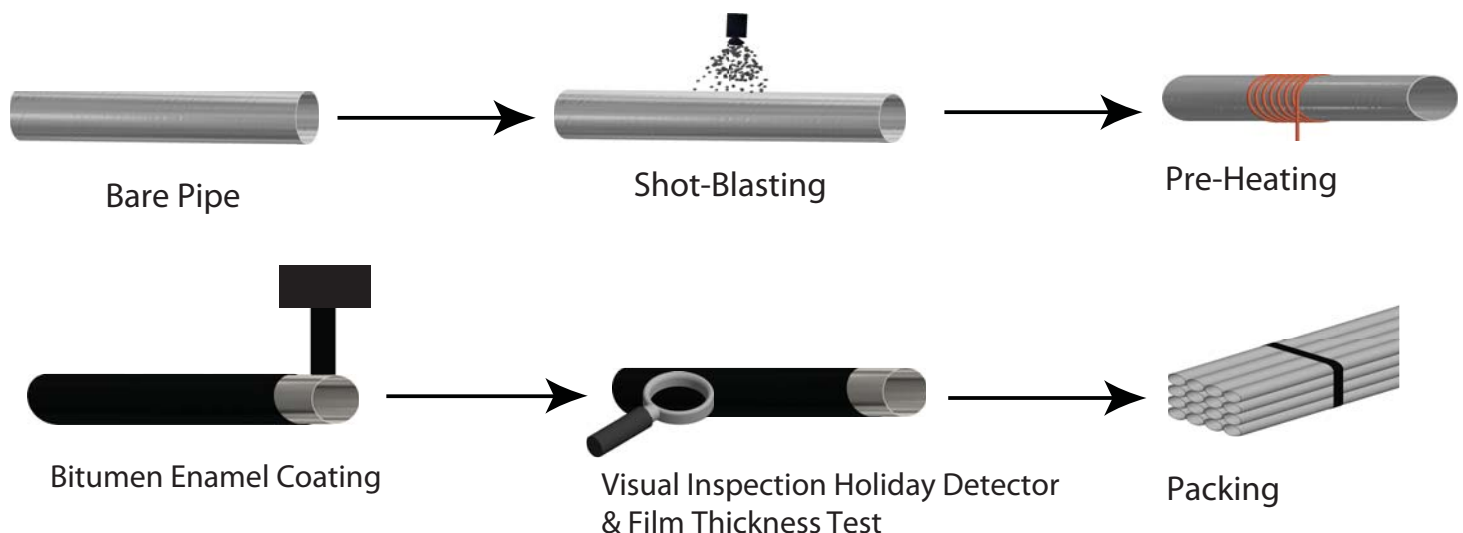


### Related Standards and Specifications

- IS 10221:2008
- ISO 8179
- BS EN 10300
- ANSI/AWWA C203-97

Additional standards may also apply after contacting an Insupipe sales agent.

### Process Flowchart of BIE Coating



#### Contact us

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| Thickness   |  |  |  |  |
|---|--|--|--|--|
| Type of outwrap   | Pipeline (woven) glass-fiber outerwrap | Polyethylene kraft paper, a two-component single wrap.                   | Two-component, single-wrap polyethylene-elastomer outerwrap. | Pipeline lock-welded glass-fiber outwrap |
| Thickness   | not less than 30 mils (0.76 mm)        | The thickness of the film element shall be 4 mils (0.1 mm) ± 10 percent. | A minimum thickness of 1 mil (0.025 mm)                      | Not less than 30 mils (760 μm)           |
| *The materials used for coating consists of the coating primer, the Coating Enamel and the wrapping material.**Please refer back to one of our sales agent to be consulted to ensure that the correct formulation will be provided. |  |  |  |  |
| Total Thickness of Coal Tar enamel and wrapping   |  |  |  |  |
| Minimum of 3.00 mm  |  |  |  |  |
| Chemical Resistance   |  |  |  |  |
| Alcohols  |  |  |  | G  |
| salt solutions  |  |  |  | G  |
| dilute acids and alkalis  |  |  |  | G  |
| solvents and some detergent solutions   |  |  |  | N  |
| thickness of coating based on Soil Resistivity  |  |  |  |  |
| Soil Resistivity (Ω-cm)   | Corrosivity                            | Coating System   |  |  |
| Below 1000  | Extremely corrosive                    | 3 Coats and 3 wraps (7.0 mm, Min)  |  |  |
| From 1000 - 5000  | Corrosive                              | 2 Coats and 2 wraps (4.0 mm, Min)  |  |  |
| Above 5000  | Non-corrosive                          | 1 Coats and 1 wraps (3.0 mm, Min)  |  |  |
| Continuity  |  |  |  |  |
| The applied voltage of the holiday dedector shall have a spark discharge at least twice the thickness of the coating  |  |  |  |  |
| Tests   |  |  |  |  |
| Test  |  |  |  | Standard                                 |
| Thickness testing   |  |  |  | IS 10221:2008                            |
| Holiday inspection  |  |  |  | IS 10221:2008                            |
| Cathodic disbondment test   |  |  |  | IS 10221:2008                            |
| Buried/Unbaried Pipe  |  |  |  |  |
| Buried water pipelines  |  |  |  |  |
| Maximum operating temperature   |  |  |  |  |
| Up to 90°C  |  |  |  |  |
| Cathodic Protection   |  |  |  |  |
| For soil resistivity above 5000 Ω-cm, cathodic protection may be used   |  |  |  |  |

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