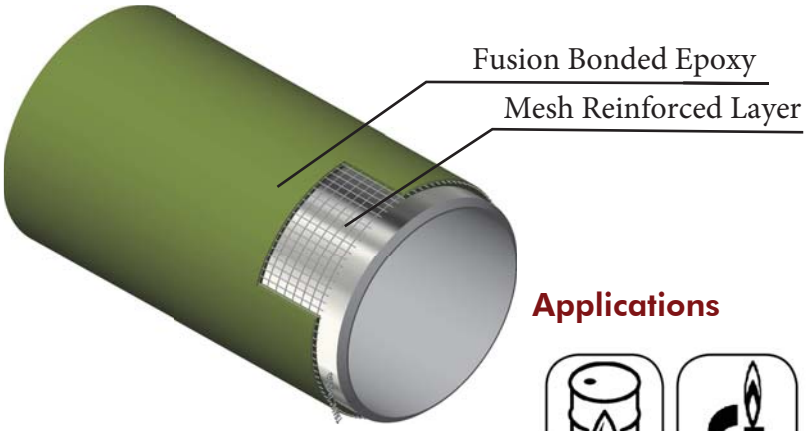
INSUPIPE

PRODUCT DATA SHEET

FBE/ Bitumen-RE-L PIPE

Fusion Bonded Epoxy Reinforced Layer Coating for Ductile Iron Pipes



Applications

Product Description

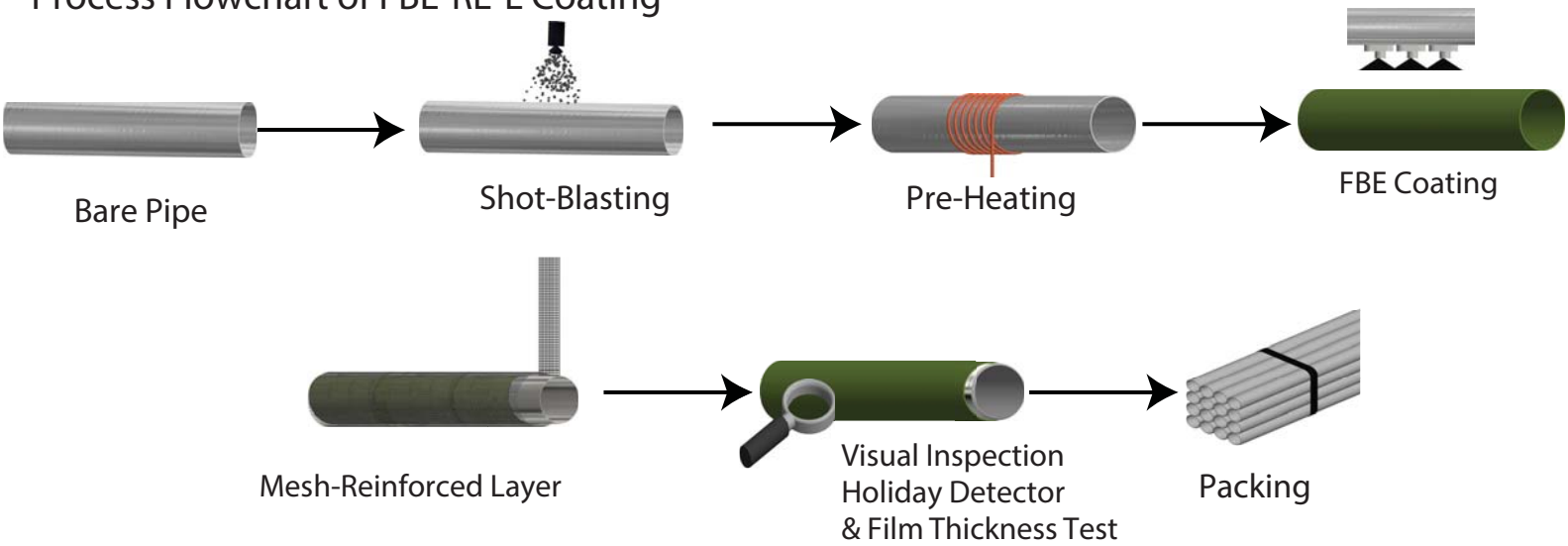
The Fusion Bonded Epoxy Reinforced Layer coating was developed to offer excellent mechanical protection to the anti corrosion coating and the pipe. This protective FBE with reinforced bars is applied by electrostatic spray method coating. It is applied for various industries for both small and large diameter pipes.

Related Standards and Specifications

- ANSI/AWWA C213
- IS 13620:1993
- ISO 10080
- BS EN 14901

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

Process Flowchart of FBE-RE-L Coating



Contact us
Al Mafraq Industrial City
Muwaqqar Industrial City
Tel:962 6 5353287 - Fax:962 6 5335395

GLOBAL SMART

www.gsest.com
www.insupipe.com

INSUPIPE

PRODUCT DATA SHEET

FBE/ Bitumen-RE-L PIPE

Thickness			
Layers	Reinforced layer	FBE/ Bitumen Layer	
Thickness	0.1 mm to 0.3 mm	FBE: 250 – 500 µm Bitumen:760 µm	
*Please refer back to one of our sales agent to be consulted to ensure that the correct formulation will be provided.			
Chemical Resistance			
Fusion Bonded Epoxy			
Acetic acid 10 %	no change	Hydrogen peroxide	faded
Ammonia 10 %	no change	Lactic acid 10 %	no change
Benzol	no change	Methanol	no change
Butanol	no change	l tert-butyl ether (MTBE	softening
austic soda solution 10 %,50 %	no change	Nitric acid 10 %	no change
Citric acid	no change	Phosphoric acid 50 %	no change
Diesel, Petroleum	no change	otassium hydroxide 50 %	no change
Ethanol	no change	Sea water	no change
Formaldehyde 37 %	no change	Sodium acetate	no change
Glycerol	no change	Sodium carbonate 20 %	no change
Formic acid	no change	Sodium chloride 20 %	no change
Hydrochloric acid concentrate	no change	Sulphuric acid 50 %	no change
Bitumen			
Alcohols			G
salt solutions			G
dilute acids and alkalis			G
solvents and some detergent solutions			N
Continuity			
No more than an average of two holidays per 300 cm			
Tests			
Test			Standard
Thickness testing			IS 13620
Holiday Test			IS 13620
Mandrel Diameter for Bend Test			IS 13620
Adhesion of Coating			IS 13620
Abrasion Resistance			IS 13620
Impact Test			IS 13620
Hardness Test			IS 13620
Abrasion Resistance			
Weight loss shall not exceed 100 mg/l 000 cycles.			
Maximum operating temperature			
Bitumen :Up to 90°C , FBE: Maximum service temperature of water			
Hardness Test			
Shall exceed the Knoop Hardness number of 16			

Contact us
Al Mafraq Industrial City
Muwaqqar Industrial City
Tel:962 6 5353287 - Fax:962 6 5335395

GLOBAL SMART

www.gsest.com
www.insupipe.com