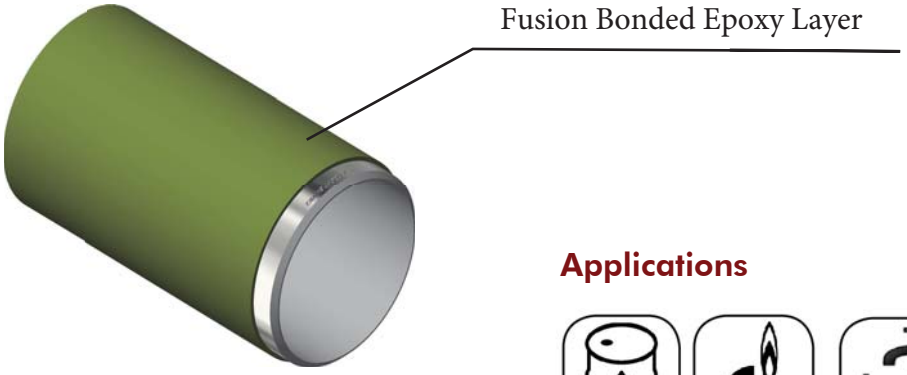
INSUPIPE

PRODUCT DATA SHEET

FBE PIPE

Fusion Bonded Epoxy Coating for Steel Pipes



Product Description

Fusion Bonded Epoxy is a high performance anti-corrosion coating that provides excellent protection for small and large diameter pipelines with moderate operating temperatures.

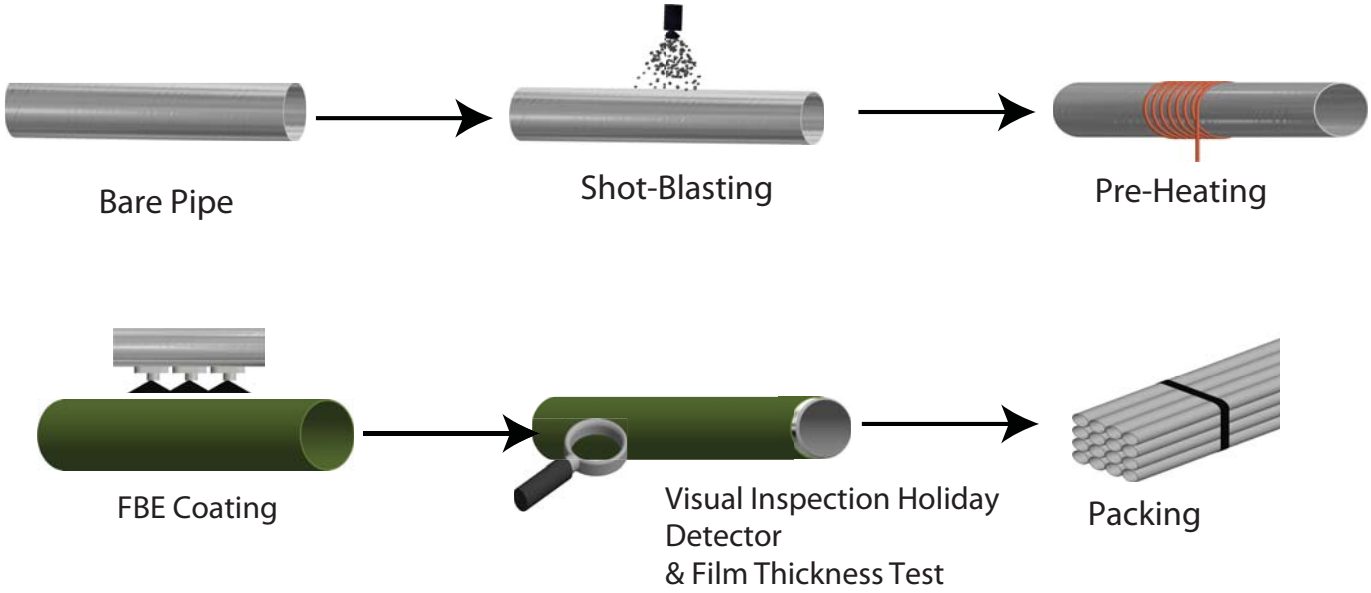
Applications

Related Standards and Specifications

- ANSI/AWWA C213
- BS EN 545
- ISO 10080
- BS EN 14901

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

Process Flowchart of FBE Coating



Contact us
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GLOBAL SMART

www.gsest.com
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Thickness			
Thickness	One layer of range 250 – 500 µm		
*Please refer back to one of our sales agent to be consulted to ensure that the correct formulation will be provided.			
Chemical Resistance			
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	Methyl tert-butyl ether (MTBE) 100%	softening
Caustic soda solution 10 %,50 %	no change	Nitric acid 10 %	no change
Citric acid	no change	Phosphoric acid 50 %	no change
Diesel, Petroleum	no change	Potassium 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 concentrated	no change	Sulphuric acid 50 %	no change
Cathodic disbonding			
24 h, 66° C 1 – 3 mm			
Tests			
Test		Standard	
Thickness testing		ANSI/AWWA C213-07	
Impact Resistance		DIN 30677-2	
Hardness		DIN EN ISO 2815	
Chemical resistance		EN 598	
Adhesion test		DIN EN 24624	
Abrasion resistance		ASTM D 245-74	
Maximum operating temperature			
the service temperature of potable water			
Abrasion resistance			
1000 g / 5000 cycles 53.5 mg			
Abrasion resistance			
> 5 Joule			
Hardness			
> 90			
Continuity			
according to NACE Standard RP0490			

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