



**Certificate of Compliance : Fusion Bonded Epoxy (FBE)**

Date

SIP certifies that our Fusion Bonded Epoxy (FBE) adheres to the Waterworks industry standards. FBE is coated and applied per FBE manufacturers' requirements. Please refer to our website [www.sipindustries.com](http://www.sipindustries.com) for up to date product data and technical advisories.

Material : FBE is a powder applied epoxy that provides excellent adhesion and low friction surface with long term corrosion resistance.

Requirements : NSF-61 & 372, ANSI/AWWA C116/A21.16, ANSI/AWWA C110/A21.10, ANSI/AWWA C153/A21.53, ANSI/AWWA C550

Physical Properties : Color : Red Oxide  
Specific Gravity : 1.40 ± 0.05  
Dry Film Thickness : 12 mils (approx.)

Film Properties :

Test	Method	Conditions	Result
Pencil Hardness	ASTM D3363		Pass 4H
Gloss 60°	ASTM D523		70-85
Direct Impact	ASTM D2794		40 in-lbs min.
Humidity Resistance	ASTM D2247	1000 Hours at 100°F	No blistering or rusting
Adhesion	ASTM D3359 Method A	X-Cut & Tape	5A
Adhesion	ASTM D3359 Method B	Crosshatch & Tape	5B
Abraision Resistance	ASTM D4060	CS-17 Wheels, 1000 Cycles, 1kg Load	32 mg loss
Salt Spray	ASTM B117	1000 hours	No blisters or face rust No scoreline creepage
Water Resistance	AWWA C550	90 Day Immersion @ 70°C (158°F)	Pass
Weather Resistance	ASTM G154	UVA-340 Cycle 4 hours @ 60°C 4 hours Condensation @ 50°C	Chalks after 200 hours exposure

This product has ample compliance to ASTM Testing procedures for the various types of applications for which it is used.

Substrates include Gray Iron, Ductile Iron and Steel surfaces.

Please note that SIP Industries FBE coats its own Ductile Iron Fittings and has sole responsibility for the end product.

Sincerely,

Roger Johnson  
Director of Technical Services  
[rjohnson@sipindustries.com](mailto:rjohnson@sipindustries.com)

Project Name	
Project Location	
Distributor	
Contractor	



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