

# FAST FABRICATORS GLASS LINED PIPE AND FITTINGS



**EMCO**  
WATERWORKS



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## Welcome to Fast Fabricators

With eleven locations, Fast Fab is the largest independent ductile iron pipe fabricator in the United States. Since our beginning in 1991, it has been our mission to provide the finest fabricated products along with excellent local service across the United States. Fast Fab has revolutionized the ductile iron pipe fabrication business.

In this website, you will find everything you need to know about our company and our products. If you are from the engineering community, you will find all of the submittal and specification information required for our glass-lined products and the only true ceramic epoxy lining and coating system in this industry.

If you have further questions, please call us at 1-800-950-8525 or [click here](#) and we will be happy to assist you.

### LATEST CASE STUDY

#### Case History- Glass Lined Valves

Glass lined pipe and fittings have been specified and utilized as a deterrent to interior build-up and clogging of problematic sludge and scum piping systems in wastewater and sewage treatment facilities for over 40 years. Not only is the excellent non-stick characteristic effective in combating the build-up of grease, sludge and scum, but has been found to be the only deterrent to Struvite and Vivionite build-up as well. However, the effectiveness of these systems was still being compromised by build-up in the non-glass lined items within the system, such as valves.

» [Click here to view the full Case Study.](#)

### WHAT'S NEW

February 4, 2008  
Revision to New Price  
Sheets Released

October, 2007  
Fast Fab to provide  
Gaskets for Flanged Pipe

July 2007  
Fast Fab has inventories  
of Protecto 401

October, 2006  
Fast and Furious in  
Florida

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## Fabricated Ductile Iron Pipe

Home > Products > Fabricated Ductile Iron Pipe

### Pricing

- Price List Fast Fabricators is the largest independent fabricator of ductile iron pipe in the world. With 11 locations, over 270 employees and countless pieces of machinery and equipment to produce fabricated ductile iron pipe to meet the needs of the waterworks industry.

### More Information

- [Flange Pipe Specifications \(PDF\)](#)
- [Field Installation Guide](#)
- [Gaskets](#)

We fabricate ductile iron pipe to AWWA C115/ANSI A21.15. This standard lists the parameters for fabricated ductile iron pipe used in process piping in water and sewage treatment. 3" - 54" Class 53 pipe is flanged, grooved, or otherwise made to customer's specs and lined with cement, glass, or SP2000 to meet all applications. The inventory of ductile iron pipe is cement-lined in accordance with AWWA C104/ANSI A21.4. We also inventory or have available Class 54, 55 and 56 ductile iron pipe.

Exterior coatings include standard tar (bituminous), Tnemec primers and epoxy's as well as other specialty coatings as requested by engineers and/or the end user.



Flanges conform to class 125 ANSI B16.1 and can be bolted up to all class 125 or (steel) class 150 flange applications. All grooved pipe meet the dimensions and standards of AWWA C606.

Fast Fabricators can supply pipe in lengths from fillers to full length (a full 20 foot, in most sizes).

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## **Fittings (all types)**

[Home](#) > [Products](#) > [Fittings \(all types\)](#)

Fast Fabricators does not manufacture ductile iron fittings, but we inventory most of the common fittings used in our industry from flanged to mechanical joint and grooved. Both domestic and import ductile iron fittings are available and manufactured under the standards approved by AWWA and ANSI.

Several of our facilities also inventory glass-lined, SP2000W as well as Protecto 401 lined fittings:

- Remington, VA
- Columbia, SC
- Saginaw, Texas
- Marysville, CA
- Portland, OR

If a need arises whereby a fitting is required that is not readily available or has to be of a non-standard dimension Fast Fab can quickly fabricate one to you exact specifications at our steel fab shop located in Marysville, CA. These steel fabricated fittings will conform to AWWA standards. They can also be lined and/or coated as required.

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## Specialty Lining & Coatings

[Home](#) > [Products](#) > Specialty Lining & Coatings

### Glass Lining (Porcelain Enamel)

[Click here for more information.](#)

#### Application

SG-14 (Green) for the lining of ductile iron and steel pipe and fittings.

MEH-32 (Blue) for the lining of ductile iron and steel pipe and fittings.

#### Typical Uses

As a deterrent to interior build-up, clogging, wear, and corrosion in high solids and grease systems. Includes sludge, scum, and screened grit piping and related equipment

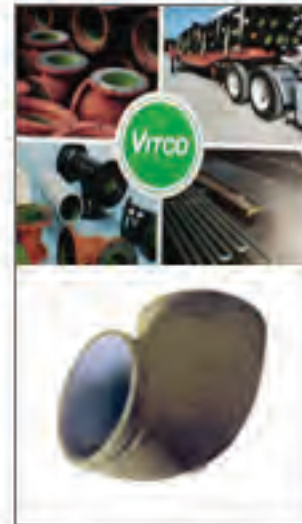
#### Characteristics

- Non-stick surface.
- No struvite, vivianite, grease or solids build-up.
- Abrasion & corrosion resistant.
- 10 mils nominal thickness.
- Repair kits available.

### SP-2000W Ceramic Epoxy (NOVOCOAT)

Preferred lining & coating for water applications  
NSF 61 certified

[Click here for more information.](#)



### Application

Lining of ductile iron pipe and fittings. May also be applied to steel pipe and fittings.

### Typical Uses

Water, wastewater, and sanitary sewer systems where there is a small volume of solids and the abrasion factor is minimal.



### Characteristics

- Excellent chemical & wear resistance.
- Chemical & mechanical bond to substrate.
- 40 mils nominal thickness.
- 100% Solids.
- No Thinners.
- No VOC's.
- NSF-61 Approved.
- Repair kits available.

### Protecto 401 Ceramic Epoxy

Preferred lining for sanitary sewer and sewage force mains.

[Click here for more information.](#) **Fusion Bonded Epoxy (206N)**

[Click here for more information.](#)

### Application

Lining and coating of fabricated steel pipe and fittings. May also be applied to ductile iron pipe and fittings.

### Typical Uses

Protection of metals from exposure to corrosive soil conditions, hydrocarbons, harsh chemicals and seawater.



### Characteristics

- Totally encapsulates base metal.
- Excellent adhesion and toughness.
- Excellent corrosion resistance.
- Color: Blue/Green.
- 12 mils nominal thickness.
- Repair kits available.
- NSF-61 approved.

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## **Glass Lining (Porcelain Enamel)**

[Home](#) > [Products](#) > [Coatings & Linings](#) > [Glass Lining \(Porcelain Enamel\)](#)

Fast Fabricators is very fortunate to have the two premier glass-lining facilities in the world. The facilities are located in Marysville, California (formerly Waterworks Manufacturing) and Remington, Virginia (VITCO Company). They have been providing quality glass-linings for over 40 years.

All glass linings manufactured at our two Fast Fabricators locations, including SG-14 (green in color), manufactured in Remington, VA and MEH-32 (blue in color) manufactured in Marysville, CA, are tested per industry guidelines established under applicable ASTM, NACE and SSPC standards for lining continuity and integrity.

- Forty Years Experience
- History of Glass Lining
- Advantages & Cost Effectiveness
- Bond Comparison
- Glass Lining Specifications
- Porcelain Enamel Continuity Testing Procedures
- Engineering Guide
- Recent Installations
- Field Handling Procedures
- The dramatic differences

**Contact us for more information.**



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## SP2000W Ceramic Epoxy

[Home](#) > [Products](#) > [Coatings & Linings](#) > SP2000W Ceramic Epoxy

### SP-2000W

There are ceramic epoxy linings and then there is SP2000W. SP2000W is the only true **100% solids** novolac epoxy available today specifically designed for water and wastewater applications. It is a product which Fast Fabricators has been applying and making available to the water works industry for over 10 years with an impeccable field history. In addition, we are also a certified applicator.



Currently, we have four locations, which apply SP2000W on fittings, and two branches, which apply it to ductile iron pipe. Please review the attachments to learn more about this great product which has revolutionized lining and coating for the water and wastewater industry.

SP2000W is manufactured by [Superior Environmental Products](#)

#### Attributes of SP-2000W

- **100% Solids**
- No Thinners
- No Fillers
- No VOC's
- Environmentally Friendly
- Is Not A DOT Regulated Substance (not a hazardous material)
- NOT A Coal Tar Pitch Based Product
- Does Not Require Self Contained Breathing Apparatus During Cutting Or Application
- Can Be Applied To The Exterior As Well As The Interior For Total Protection
- Excellent Protection In Sewer Applications
- Excellent Resistance In Any Salt Water Environment
- NSF-61 Certified For Use In Drinking Water Applications
- Superior Bonding To The Substrate (three times that of any other ceramic epoxy or polyethylene product)
- Excellent Abrasion Resistance (Alpha Phase Alumina Ceramics - Hardness Just Below A Diamond)
- Resistance To A Wide Range Of Chemicals
- Excellent Impact Resistance And Hardness
- Holiday (pinhole) Testing Per Applicable ASTM, NACE, And SSPC Industry Standards (other ceramic epoxies cannot be tested per the industry standards according to their literature)
- Can Be Applied To The Bell And Spigot Of Ductile Iron Pipe For Total "Wet Area" Protection (not a red primer product as some other products use)
- Field Repairs Are Completed With The Same Product As Is Applied At The Factory, Not Coal Tar Epoxy or "Pipe Joint Compound", So You Have The Same Excellent Level Of Protection In ALL Areas Of Exposure
- Can Be Stored Outside Indefinitely Without Disbondment From The Substrate (some chalking will occur)





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## **Fusion Bond Epoxy Lining & Coating**

[Home](#) > [Products](#) > [Coatings & Linings](#) > Fusion Bond Epoxy Lining & Coating

For nearly 50 years fusion bonded epoxy has been used for a wide variety of corrosion applications. Fusion bonded epoxy is a heat applied powder coating that can be applied in thicknesses from 10 - 40 mils. The most effective method of application is by submerging the preheated part in a fluidized bed for a specific period of time to achieve the desired coating thickness. Fast Fabricators operates the largest fluidized bed in North America with convection ovens for faster heating of materials. No other fabrication company has more experience in the application of fusion bonded epoxies than Fast Fabricators.

While not recommended as a protective coating in a sewer application, fusion bonded epoxy affords excellent protection in various water and salt water applications. It has NSF-61 certification for use in potable water and FDA certification for use in food handling applications.

Fast Fabricator applies two types of fusion bonded epoxy depending upon the surface to be protected and the type of protection desired. Following is a brief description of the product and its attributes.

[Scotchkote 206N \(Aqua Epoxy\)](#)

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