

Edge

HP IRON



Charlotte Pipe® Edge HP Iron™ for Aggressive DWV Applications

Charlotte Pipe and Foundry's new Edge HP Iron pipe and fittings system is a specially coated cast iron designed for aggressive DWV applications. While Charlotte Pipe's standard cast iron systems easily meet the needs of the vast majority of DWV installations, in certain aggressive environments, the piping system may need enhanced protection.

Charlotte Pipe Edge HP Iron is specifically designed for aggressive applications and installations such as:

- Exposure to undiluted cleaning chemicals with a pH range of 2 to 12
- Hospitals
- Casinos
- Commercial kitchens
- Soda fountains
- Bar sinks
- Parking garages

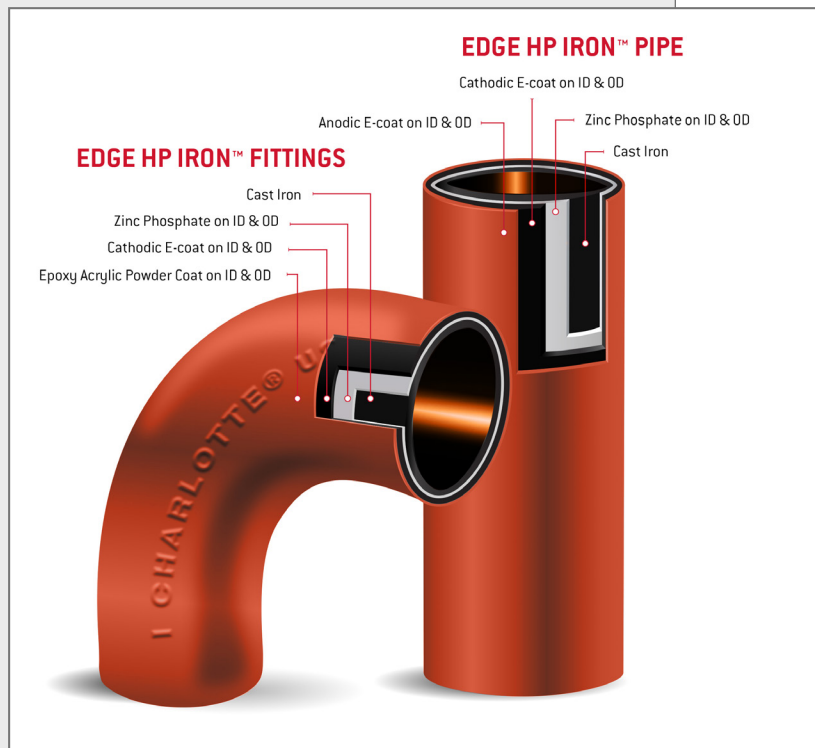


PERFORMANCE

Charlotte Pipe Edge HP Iron™ meets or exceeds all of the coating performance requirements found within EN 877. This system also conforms to ASTM A 74 (Service and Extra Heavy), ASTM A 888 and CISPI 301 (Hubless) standards. It is certified by NSF International as conforming with all performance and quality control requirements of the standards listed above.

EDGE HP IRON™ LINE INCLUDES:

- 2"-15" NH and SV pipe in 10' lengths
- More than 560 SKUs of 2"-15" NH, SV and XH fittings
- For use in aggressive drain, waste and vent (DWV) and storm drainage applications
- Not suitable for chemical waste applications
- NSF International and IAPMO listed
- Charlotte Pipe's pipe and fittings must be joined with NSF-listed couplings and neoprene gaskets



*All coatings are on both ID and OD



WHY CHOOSE EDGE

The ecoat process is what makes Edge the superior coated cast iron product.

Ecoat, short for electrocoating, uses electrical current to evenly deposit paint. For Edge, we employ both anodic and cathodic ecoat processes:

- ⊕ **Anodic Ecoating** positively charges the part being coated to attract the negatively charged paint particles. This offers excellent color and gloss control.
- ⊖ **Cathodic Ecoating** reverses the polarities. This greatly reduces the amount of soluble iron in the paint, increasing its corrosion resistance.

E-coating provides 100% coverage of the ID and OD of the part; the coating has a uniform thickness, superior edge coverage, is not susceptible to delamination, and does not have drips or runs.

While this method is capital intensive, it is the most advanced and environmentally friendly epoxy coating process available. Its uniform coating thickness and superior corrosion resistance coupled with a low environmental impact is the reason it is employed by all high-end automotive manufacturers.

FIELD-CUT PATCHES

Charlotte Pipe does not require cut pipe ends to be coated. When pipe is cut in the field, uncoated ends are exposed to the effluent flowing through the piping system. Charlotte Pipe's superior e-coating process ensures that the effluent will not get under the coating and cause any delamination of the coating. Also, the pipe stops incorporated into the neoprene fluid seals provide a limited degree of protection from the effluent.

Where an on-site coating of the cut edges is desired or specified, we recommend using PPG Multi-Prime for edge protection. Multi-Prime 4160 is fast drying, while Multi-Prime 4360 is low VOC. In areas where an even lower VOC product is required, we recommend PPG Amerlock 2. These products are available through PPG's distribution network at www.ppgpaints.com/store-locator.

SUGGESTED SPECIFICATIONS

HIGH-PERFORMANCE COATED 2"-15" CAST IRON SOIL PIPE AND FITTINGS ([ABOVE] [BELOW] GRADE)

- A. All pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute® and listed by NSF® International.
- B. Each length of pipe and each fitting shall be plainly marked with size, country of origin, and name of manufacturer, or manufacturer's registered trademark by which the manufacturer can be readily identified after installation.
- C. Pipe Coating on both ID and OD: Chemically deposited zinc-phosphate pretreatment layer followed by an electrically deposited, high-performance cathodic epoxy coating, and finally an electrically deposited, high-performance anodic epoxy top coat. Coating thickness shall be 5 mils or greater on both the ID and OD.
- D. Fitting Coating on both ID and OD: Chemically deposited zinc-phosphate pretreatment layer followed by an electrically deposited, high-performance cathodic epoxy coating, and finally an epoxy acrylic powder top coat. Coating thickness shall be 5 mils or greater on both the ID and OD.
- E. Coating Performance: Pipe and Fitting Coatings must pass the following performance specifications per EN 877:
 - a. 350 hours of salt spray testing
 - b. Resistance to wastewater for 30 days at 73° F
 - c. Chemical resistance from pH 2 to pH 12 for 30 days at 73° F
 - d. Resistance to hot water for 24 hours at 203° F

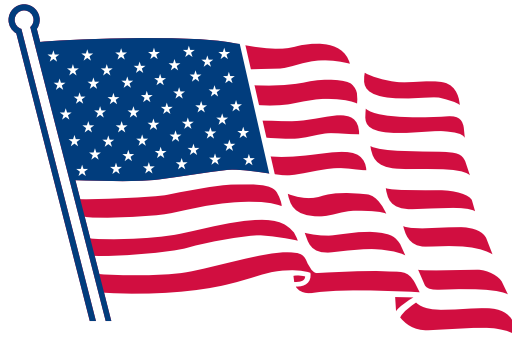
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All products manufactured by
Charlotte Pipe and Foundry Company
are proudly made in the U.S.A.