



**WEAVER CONSTRUCTION MANAGEMENT, INC.**  
 3679 S. Huron St., Suite 404  
 Englewood, CO 80110  
 Phone: (303) 789-4111 FAX: (303) 789-4310

**SUBMITTAL TRANSMITTAL**

September 15, 2011  
WGC Submittal No: 02622-002

**PROJECT:** Harold Thompson Regional WRF  
 Birdsall Rd.  
 Fountain, CO 80817  
 Job No. 2908

**ENGINEER:** GMS, Inc.  
 611 No. Weber St., #300  
 Colorado Springs, CO 80903  
 719-475-2935 Roger Sams

**OWNER:** Lower Fountain Metropolitan  
 Sewage Disposal District  
 901 S. Santa Fe Ave.  
 Fountain, CO 80817  
 719-382-5303 James Heckman

**CONTRACTOR:** Always Plumbing & Heating  
 P.O. Box 25215  
 Colorado Springs, Colorado 80936  
 719-532-1344 Ed Buss  
 info@alwaysph.com

**SUBJECT:** Plumbing Submittal for Head Works - PVC P-Trap for Floor Drains and Purple Primer  
 This particular pipe is an add on.

**SPEC SECTION:** 02622: Plastic Pipe

**PREVIOUS SUBMISSION DATES:** n/a

**DEVIATIONS FROM SPEC:** \_\_\_ YES X NO

**CONTRACTOR'S STAMP:** This submittal has been reviewed by Weaver General Construction and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto:

<p><b>Contractor's Stamp:</b></p> <p>Date: 9/15/11          Reviewed by: H.C. Myers  <input checked="" type="checkbox"/> Reviewed Without Comments  <input type="checkbox"/> Reviewed With Comments</p> <p><b>ENGINEER'S COMMENTS:</b></p>	<p><b>Engineer's Stamp:</b></p>
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submit section (02/6/22)

# CHARLOTTE PIPE AND FOUNDRY COMPANY

This is to certify that all Plastic Pipe and Fittings manufactured by Charlotte Pipe and Foundry Company are manufactured in the United States and conform to the following standards:

**SCH. 40 PVC PIPE**

ASTM D 1784, ASTM D 1785, ASTM D 2665  
FHA UM 79a  
FEDERAL SPECIFICATION L-P-320a  
NSF STANDARD NO. 14 AND 61

**SCH. 40 PVC DWV PIPE CELLULAR CORE**

ASTM D 4396, ASTM F 891  
NSF STANDARD NO. 14

**SCH. 40 RePVC® DWV PIPE**

ASTM D 4396, ASTM F 1760  
NSF STANDARD NO. 14

**SCH. 40 PVC DWV FITTINGS**

ASTM D 1784, ASTM D 2665, ASTM D 3311,  
ASTM F 1866  
FHA UM 79a  
FEDERAL SPECIFICATION L-P-320a  
NSF STANDARD NO. 14

**PVC PRESSURE PIPE SDR-21 AND SDR-26**

ASTM D 1784, ASTM D 2241  
NSF STANDARD NO. 14 AND 61

**PVC SCH. 40 PRESSURE FITTINGS**

ASTM D 1784, ASTM D 2466  
NSF STANDARD NO. 14 AND 61

**PVC WELL CASING PIPE**

ASTM D 1784, ASTM F 480  
NSF STANDARD NO. 14 AND 61

**PVC SCH. 80 PIPE**

ASTM D 1784, ASTM D 1785, PVC 1120  
NSF STANDARD NO. 14 AND 61

**PVC SCH. 80 FITTINGS**

ASTM D 1784, ASTM D 2467, ASTM D 2464,  
ASTM F 1970  
NSF STANDARD NO. 14 AND 61

**PVC SEWER MAIN PIPE**

ASTM D 1784, ASTM D 3034 SDR 35  
ASTM D 3212, ASTM F 477

**PVC SEWER AND DRAIN PIPE**

ASTM D 1784, ASTM D 2729

**PVC THIN WALL PIPE AND FITTINGS**

ASTM D 1784, ASTM D 2949  
NSF STANDARD NO. 14

**CPVC CTS FLOWGUARD GOLD® PIPE & FITTINGS**

ASTM D 1784, ASTM D 2846  
FHA UM-61a  
NSF STANDARD NO. 14, AND 61  
CSA LISTED ON SPECIFIED ITEMS

**CPVC CTS REUZE® PIPE**

ASTM D 1784, ASTM D 2846  
NSF STANDARD NO. 14.

**CHEMDRAIN® CPVC SCHEDULE 40 PIPE AND FITTINGS**

ASTM D 1784, ASTM F 2618  
NSF STANDARD NO. 14

**SCH. 40 ABS DWV PIPE CELLULAR CORE**

ASTM D 3965, ASTM F 628  
NSF STANDARD NO. 14

**SCH. 40 ABS DWV FITTINGS**

ASTM D 3965, ASTM D 2661, ASTM D 3311  
FHA UM 79a  
FEDERAL SPECIFICATION L-P-322b  
NSF STANDARD NO. 14

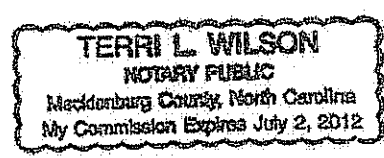
Very truly yours,

*Hooper Hardison*

Hooper Hardison, Executive Vice President

*Terri L. Wilson*

Notary Public  
My commission expires July 02, 2012



**CHARLOTTE**  
PIPE AND FOUNDRY COMPANY

## Suggested Specification

**System:** PVC Schedule 40 Solid Wall Pipe and PVC DWV Fitting System

**Scope:** This specification covers PVC Schedule 40 solid wall pipe and PVC DWV fittings used in sanitary drain, waste, and vent (DWV), sewer, and storm drainage applications. This system is intended for use in non- pressure applications where the operating temperature will not exceed 140°F.

**Specification:** Pipe and fittings shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a Cell Class of 12454 as identified in ASTM D 1784.

PVC Schedule 40 pipe shall be Iron Pipe Size (IPS) conforming to ASTM D 1785 and ASTM D 2665. PVC DWV fittings shall conform to ASTM D 2665. Fabricated PVC DWV fittings shall conform to ASTM F 1866. Pipe and fittings shall be manufactured as a system and be the product of one manufacturer. All pipe and fittings shall be manufactured in the United States. All systems shall utilize a separate waste and vent system. Pipe and fittings shall conform to National Sanitation Foundation Standard 14.

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all local plumbing, building, and fire code requirements. Buried pipe shall be installed in accordance with ASTM D 2321 and ASTM F 1668. Solvent cement joints shall be made in a two step process with primer manufactured for thermoplastic piping systems and solvent cement conforming to ASTM D 2564. The system shall be protected from chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents not compatible with PVC compounds. Systems shall be hydrostatically tested after installation. **WARNING!** Never test with or transport/store compressed air or gas in PVC pipe or fittings.

**Referenced Standards:**

ASTM D 1784	Rigid Vinyl Compounds
ASTM D 1785	PVC Plastic Pipe, Schedule 40
ASTM D 2665	PVC Drain, Waste, and Vent Pipe & Fittings
ASTM D 2564	Solvent Cements for PVC Pipe and Fittings
ASTM D 2321	Underground Installation of Thermoplastic Pipe (non-pressure applications)
ASTM F 1668	Procedures for Buried Plastic Pipe
ASTM F 1866	Fabricated PVC DWV Fittings
NSF Standard 14	Plastic Piping Components and Related Materials

Note: Latest revision of each standard applies.

(811)

PO Box 35430 Charlotte, NC 28235 USA 704/372-5030 800/438-6091 FAX 800/553-1605  
[www.charlottepipe.com](http://www.charlottepipe.com)

**Oatey**® 4700 W. 160th St.  
Cleveland, OH 44135  
1-800-321-9632  
1-800-321-8635  
www.oatey.com

TECHNICAL SPECIFICATION

**MEDIUM CLEAR  
PVC SOLVENT CEMENT**

Page 1 of 2



**TECHNICAL SPECIFICATION:** Oatey Medium Clear PVC Solvent Cement is recommended for solvent welding all schedules and classes of PVC pipe and fittings up to 6" diameter with interference fit. Medium Clear PVC Solvent Cement can be used for potable water, sewer and drain, waste and vent systems. This product is compliant with California South Coast Air Quality Management District (SCAQMD) Rule 1168 and Ozone Transport Commission (OTC) regulations for Volatile Organic Compound emission levels. **Note: This product is not for use in a system using or being tested by compressed air or gases.**



**INGREDIENTS (CAS Number)**

- Acetone(67-64-1)
- Amorphous Silica (112945-52-5)
- Cyclohexanone (108-94-4)
- Methyl Ethyl Ketone (78-93-3)
- PVC Resin (9002-86-2)
- Tetrahydrofuran (109-99-9)

**LISTINGS**



NSF Standard 61  
for PW, DWV, SEWER.



IAPMO Listed

**PHYSICAL/CHEMICAL PROPERTIES**

- Appearance Clear Liquid
- Viscosity min. 500 cps @ 73° F ± 2° F
- Density 7.74 ± 0.2 lbs/gallon
- Lap Shear Strength (minimum per ASTM Standards)
  - 2 hours 250 psi
  - 16 hours 500 psi
  - 72 hours 900 psi
- Set Up Time
  - 30° F to 50° F 5 – 6 minutes
  - 50° F to 70° F 3 – 4 minutes
  - 70° F to 90° F 1 – 2 minutes
- Shelf Life 3 years from manufacture date

Meets ASTM Standard D 2564.

Maximum VOC per SCAQMD 1168/316A or BAAQMD  
Method 40: 510 g/L

PRODUCT NUMBER	SIZE	PACK	CARTON WEIGHT
31017	4 oz.	24	9 lbs.
31018	8 oz.	24	15 lbs.
31019	16 oz.	24	28 lbs.
31020	32 oz.	12	27 lbs.
31021	Gallon	6	50 lbs.



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TECHNICAL SPECIFICATION

## MEDIUM CLEAR PVC SOLVENT CEMENT

Page 2 of 2



### DIRECTIONS FOR USE

Read all directions carefully before using this product.

• Do not breathe vapors. Use only in well ventilated area. If forced air ventilation is used, be sure it does not cause a fire hazard from solvent vapors. If adequate ventilation cannot be provided, wear a NIOSH-approved respirator for organic solvents. • Do not use or store near heat, sparks, or flames. Do not smoke, eat or drink when using. Do not take internally. Vapors may accumulate in low places and may ignite explosively. • Store and use at temperatures between 40°F and 110°F. At temperatures outside of this range, special care must be taken to prepare good joints and prevent exposures to solvents. • Stir or shake before using; if jelly-like, don't use. Keep container closed when not in use. • Avoid eye and skin contact - wear safety glasses with side shields and wear rubber gloves. • Do not thin.

1. Square pipe ends and remove all burrs and dirt.
2. Check dry fit of pipe and fitting. Pipe should easily go 1/3 of the way into the fitting. If the pipe bottoms, it should be snug.
3. Use a suitable applicator at least 1/2 the size of the pipe diameter. For larger size pipe systems use a natural bristle brush or roller.
4. Clean pipe and fitting with a listed primer.
5. Apply liberal coat of cement to pipe to the depth of the socket; leave no uncoated surface.
6. Apply a thin coat of cement to inside of fitting; avoid puddling of cement. Puddling can cause weakening and premature failure of pipe or fitting. Apply a second coat of cement to the pipe.
7. Assemble parts QUICKLY. Cement must be fluid. If cement surface has dried, recoat both parts.
8. Push pipe FULLY into fitting using a 1/4 turning motion until pipe bottoms.
9. Hold pipe and fitting together for 30 seconds to prevent pipe push-out - longer at low temperatures. Wipe off excess.
10. Allow 15 minutes for good handling strength and 2 hours cure time at temperatures above 60°F before hydrostatic pressure testing up to 180 psi. Longer cure times may be required at temperatures below 60°F or with pipe diameters over 3". DO NOT TEST WITH AIR.

This product is not for use with caustic or acidic chemical solutions. Consult Oatey Technical Department for more information.

### PRECAUTIONS

Read all information carefully before using this product.

**DANGER: EXTREMELY FLAMMABLE. VAPORS MAY CAUSE FLASH FIRES. MAY IRRITATE EYES AND SKIN. VAPOR HARMFUL. MAY IRRITATE RESPIRATORY TRACT AND CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. HARMFUL OR FATAL IF SWALLOWED.**

May cause irritation to eyes, skin, and nose, throat, and respiratory tract. May cause coughing, sore throat, difficulty breathing, headache, dizziness, nausea. Long term repeated overexposures to solvents may cause damage to the brain, nervous system, reproductive system, respiratory system, mucous membranes, liver, and kidneys. **KEEP OUT OF REACH OF CHILDREN.**

**FIRST AID:** If swallowed, **DO NOT INDUCE VOMITING.** Drink water and call a doctor or poison

control center immediately. This product may be aspirated into the lungs and cause chemical pneumonitis, a potentially fatal condition. If contact with eyes, flush with water for 15 minutes and seek medical attention if irritation persists. If contact with skin, flush with water and then use baby oil or Oatey Hand Cleaner to remove residue. If inhaled and ill feelings develop, get fresh air and obtain medical attention if ill feelings persist. **FOR EMERGENCY FIRST AID INSTRUCTIONS CALL 1-877-740-5015.**

**FIRE:** Use dry chemical, foam, or carbon dioxide extinguisher. Water spray may be applied to reduce potential vapors or for cooling. Burning liquid extinguished with water will float and may re-ignite on surface of water. **SPILLS:** Remove all sources of ignition and ventilate area. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high. Soak up spill with absorbent material. Put absorbent material in covered, labeled metal containers. Dispose of in accordance with local regulations.

A fire or explosion may result if dry granular calcium hypochlorite is used to disinfect plastic piping systems and is exposed to organic vapors found in solvent cements, cleaners or primers. Do not disinfect piping system with dry granules. Do not store dry granular calcium hypochlorite near solvent cements, cleaners or primers. **DO NOT REUSE EMPTY CONTAINER. KEEP OUT OF REACH OF CHILDREN.**

Refer to material safety data sheet for more information.

Before purchase and use of a product, review the product application and be certain the product, installation and use will be in compliance with any applicable codes and regulations.



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TECHNICAL SPECIFICATION

**PURPLE PRIMER**

Page 1 of 2



**TECHNICAL SPECIFICATION:** Oatey Purple Primer is a purple-tinted primer recommended for use with PVC and CPVC pipe and fittings. Purple Primer is formulated to remove dirt and oil from the surface of the piping, as well as soften the piping in preparation for solvent welding. Purple pigment provides verification that primer has been applied to the pipe surface. This product is compliant with California South Coast Air Quality Management District (SCAQMD) Rule 1168 and Ozone Transport Commission (OTC) regulations for Volatile Organic Compound emission levels. **Note: This product is not for use in a system using or being tested by compressed air or gases.**



**INGREDIENTS (CAS Number)**

- Acetone (67-64-1)
- Cyclohexanone (108-94-1)
- Methyl Ethyl Ketone (78-93-1)
- Tetrahydrofuran (109-99-9)
- Red Dye (4477-79-6)
- Violet Dye (81-48-1)

**LISTINGS**



NSF Standard 61  
for PW, DWV, SEWER



IAPMO Listed

**PHYSICAL/CHEMICAL PROPERTIES**

Appearance Purple Liquid  
Density 6.97 ± 0.2 lbs/gallon  
Shelf Life 3 years from manufacture date

Meets ASTM Standard F 656

Maximum VOC per SCAQMD 1168/316A or BAAQMD  
Method 40: 550 g/L

PRODUCT NUMBER	SIZE	PACK	CARTON WEIGHT
30755	4 oz.	24	8 lbs.
30756	8 oz.	24	14 lbs.
30757	16 oz.	24	25 lbs.
30758	32 oz.	12	24 lbs.
30759	Gallon	6	46 lbs.



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TECHNICAL SPECIFICATION

## PURPLE PRIMER

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### DIRECTIONS FOR USE

Read all directions carefully before using this product.

• Do not breathe vapors. Use only in well ventilated area. If forced air ventilation is used, be sure it does not cause a fire hazard from solvent vapors. If adequate ventilation cannot be provided, wear a NIOSH-approved respirator for organic solvents. • Do not use or store near heat, sparks, or flames. Do not smoke, eat or drink when using. Do not take internally. Vapors may accumulate in low places and may ignite explosively. • Store and use at temperatures between -15°F and 110°F. • Keep container closed when not in use. • Avoid eye and skin contact - wear safety glasses with side shields and wear rubber gloves. • **HANDLE WITH CARE! WILL STAIN MOST MATERIALS AND SURFACES.** • Do not thin.

1. Square pipe ends and remove all burrs and dirt.
2. Check dry fit of pipe and fitting. Pipe should easily go 1/3 of the way into the fitting. If the pipe bottoms, it should be snug.
3. Use a suitable applicator at least 1/2 the size of the pipe diameter. For larger size pipe systems use a natural bristle brush or roller.
4. Apply thoroughly to outside surface of the pipe to the depth of the fitting and inside of the fitting socket.
5. Use appropriate solvent cement for the pipe being joined. **DO NOT TEST WITH AIR.**

This product is not for use with caustic or acidic chemical solutions. Consult Oatey Technical Department for more information.

### PRECAUTIONS

Read all information carefully before using this product.

**DANGER: EXTREMELY FLAMMABLE. VAPORS MAY CAUSE FLASH FIRES, MAY IRRITATE EYES AND SKIN. VAPOR HARMFUL. MAY IRRITATE RESPIRATORY TRACT AND CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. HARMFUL OR FATAL IF SWALLOWED.**

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