



Southern Pipe, Inc.

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FEATURES AND BENEFITS

<ul style="list-style-type: none"> ⇒ <i>Superior quality control standards</i> ⇒ <i>Standard 10 and 20 foot lengths</i> ⇒ <i>Integral Bell</i> ⇒ <i>Light weight</i> ⇒ <i>Easy field cutting</i> ⇒ <i>Excellent packaging</i> ⇒ <i>Smooth interior wall</i> ⇒ <i>Ultraviolet protection</i> ⇒ <i>Superior dielectric strength</i> ⇒ <i>Low coefficient of static and dynamic friction</i> ⇒ <i>Pneumatic rodding</i> ⇒ <i>Superior chemical resistance</i> 	<p><u>SPI DUCT PRODUCED TO THE FOLLOWING INDUSTRY STANDARDS</u></p> <p>UL 651 & 651A NEMA TC-2 NEMA TC-6 NEMA TC-8 ASTM F-512 NEC 300-5 & 710-3(b) ASTM F-891</p>
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PHYSICAL AND PERFORMANCE PROPERTIES

Property	ASTM #	Typical value
Tensile Strength psi	D638	< 7000
Modulus of Elasticity in Tension psi	D368	< 500000
Flexural Strength psi	D790	< 13000
Deflective Temp under load @ 265 psi °F	D648	< 176 °F
Co-efficient of Thermal Expansion in/in/F	D696	3.0 x 10 ⁻⁵

Pipe Stiffness	(per ASTM F-512)
Conduit Type (all sizes)	Minimum Pipe Stiffness (F/Y)
EB-20	20
EB-35	35
DB-60	60
DB-120	120

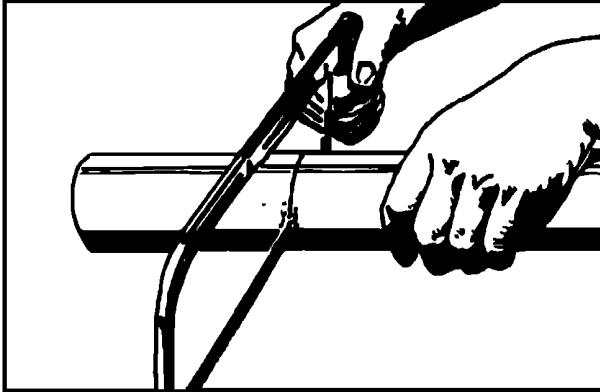
Chemical Resistance

Key: E= Excellent G= Good
N= Not Resistant
O= Untested L= Limited

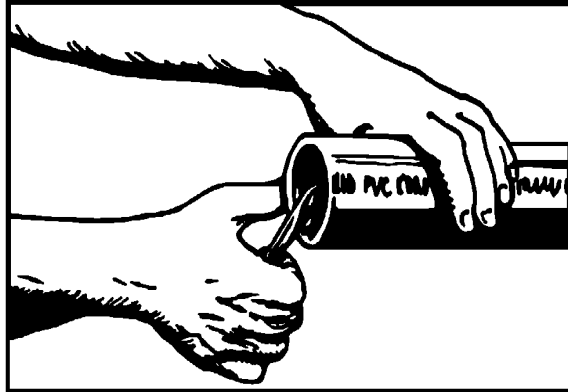
<u>Chemical</u>	<u>Rating</u>	<u>Chemical</u>	<u>Rating</u>	<u>Chemical</u>	<u>Rating</u>
Acetic Acid 0-10%	G	Butane, Butylene	E	Fatty Acid	E
Acetic Acid 10-20%	G	Buttermilk	E	Ferric Chloride	E
Acetic Acid 20-30%	G	Butyl Phenol	L	Ferric Nitrate	E
Acetic Acid 30-60%	G	Butylene	E	Ferric Sulfate	E
Acetic Acid 80%	L	Butyric Acid 20%	L	Ferrous Nitrate	E
Acetic Acid - Glacial	L			Fish Solubles	E
Acetic Acid - Vapors	G	Calcium Bisulfide	E	Fluoroboric Acid - 25%	E
Acetylene	E	Calcium Bisulfite	E	Fluorosilicic Acid	E
Adipic Acid	E	Calcium Carbonate	E	Formaldehyde	G
Alcohol - Amyl	L	Calcium Chlorate	E	Food Products such as Milk, Buttermilk, Molasses, Salad	
Alcohol - Butyl	L	Calcium Chlorine	E	Oils, Fruit	E
Alcohol - Ethyl	E	Calcium Hydroxide	E	Formic Acid	E
Alcohol - Methyl	E	Calcium Hypochlorite	E	Freon- 12	E
Alcohol - Propargyl	E	Calcium Nitrate	E	Fructose	E
Alcohol - Propyl	E	Calcium Oxide	E	Fruit Pulps and Juices	E
Alum	E	Calcium Sulfate	E	Fuel Oil (containing H2SO4)	E
Alum, Ammonium	E	Cane Sugar Liquors	E		
Alum, Chrome	E	Carbolic Acid	E		
Alum, Potassium	E	Carbon Dioxide (Aqueous S.L.)	E	Gallic Acid	E
Aluminum Chloride	E	Carbon Dioxide Gas (Wet)	E	Gas - Coke Oven	G
Aluminum Fluoride	E	Carbon Monoxide	E	Gas- Natural (Dry)	E
Aluminum Hydroxide	E	Carbonated Water	E	Gas - Natural (Wet)	E
Aluminum Oxychloride	E	Carbonic Acid	E	Gasoline (leaded)	E
Aluminum Nitrate	E	Casein	E	Gasoline (unleaded)	E
Aluminum Sulfate	E	Castor Oil	E	Gasoline- Refined	L
Ammonia - Dry Gas	E	Caustic Potash	E	Gasoline- Sour	E
Ammonia, Aqua (10%)	E	Caustic Soda	E	Gelatine	E
Ammonia- Liquid	N	Cellosolve	L	Glucose	E
Ammonium Acetate	E	Chloracetic Acid	E	Glycerine (Glycerol)	E
Ammonium BiFluoride	E	Chloral Hydrate	E	Glycol	E
Ammonium Carbonate	E	Chloric Acid 20%	E	Glue	E
Ammonium Chloride	E	Chlorine (Dry)	L	Glycolic Acid 30%	E
Ammonium Hydroxide - 28%	E	Chlorine Gas (moist)	L	Green Liquor (Paper Industry)	E
Ammonium Metaphosphate	E	Chlorine Water	E		
Ammonium Monophosphate	E	Chloroacetic Acid	E	Heptane	L
Ammonium Nitrate	E	Chlorosulfonic Acid (100%)	N	Hexanol Tertiary	L
Ammonium Persulfate	E	Chrome Alum	E	Hydrobromic Acid - 20%	E
Ammonium Phosphate (Ammoniacal)	O	Chromic Acid 10%	E	Hydrochloric Acid - 0-25%	E
Ammonium Phosphate-Neutral	E	Chromic Acid 25%	G	Hydrochloric Acid - 25-40%	E
Ammonium Sulfate	E	Chromic Acid 30%	G	Hydrocyanic Acid or Hydrogen Cyanide	E
Ammonium Sulfide	E	Chromic Acid 40%	L	Hydrofluoric Acid 4%	G
Ammonium Thiocyanate	E	Chromic Acid 50%	L	Hydrofluoric Acid 10%	E
Anthraquinone	E	Citric Acid	E	Hydrofluoric Acid 48%	G
Anthraquinonesulfonic Acid	E	Coconut Oil	E	Hydrofluoric Acid 60%	G
Anitimony Trichloride	E	Coke Oven Gas	E	Hydrofluoric Acid 100%	L
Arsenic Acid - 80%	E	Copper Carbonate	E	Hydrogen	E
Arylsulfonic Acid	L	Copper Chloride	E	Hydrogen Peroxide - 30%	E
Asphalt	E	Copper Cyanide	E	Hydrogen Peroxide - 50%	E
		Copper Fluoride	E	Hydrogen Sulfide-Aqueous Solution	E
Barium Carbonate	E	Copper Nitrate	E	Hydrogen Sulfide - Dry	E
Barium Chloride	E	Copper Sulfate	E	Hydroquinone	E
Barium Hydroxide	E	Core Oils	E	Hydroxylamine Sulfate	E
Barium Sulfate	E	Corn Oil	E	Hypochlorous Acid	E
Barium Sulfide	E	Corn Syrup	E	Hypo - (Sodium Thiosulfate)	E
Beer	E	Cottonseed Oil	E		
Beet - Sugar Liquor	E	Cresylic Acid 50%	L	Iodoform	O
Benzenesulfonic Acid- 10%	E	Crude Oil - Sour	E	Isopropylalcohol	E
Benzoic Acid	E	Crude Oil - Sweet	E		
Bismouth Carbonate	E	Cuprous Chloride	E		
Black Liquor (Paper Industry)	E			Jet Fuels, JP4 & JP5	E
Bleach - 12.5% Active CL2	G	Demineralized Water	E		
Borax	E	Dextrin	E	Kerosene	E
Borax Liquors	E	Dextrose	E	Kraft Liquor (Paper Industry)	E
Boric Acid	E	Diazo Salts	E		
Boron, TriFluoride	E	Diesel Fuels	E	Lacquer Thinners	L
Breeder Pellets- Fish Deriv.	E	Disodium Phosphate	E	Lactic Acid 28%	E
Brine	E	Diglycolic Acid	E	Lard Oil	E
Bromic Acid	E	Dioxane - 1.4	N	Lauric Acid	E
Bromine - Water	L	Divinyl Benzene	O	Lauryl Chloride	E
Butadiene	L	Drying Oil	O	Lauryl Sulfate	E
Butane	E	Ethylene Glycol	E	Lead Acetate	E

<u>Chemical</u>	<u>Rating</u>	<u>Chemical</u>	<u>Rating</u>	<u>Chemical</u>	<u>Rating</u>
Linoleic Acid	E	Lead	E	Sodium Dichromate (Neutral)	E
Linseed Oil	E	Nickel	E	Sodium Ferricyanide	E
Liquers	E	Rhodium	E	Sodium Ferrocyanide	E
Liquors	E	Silver	E	Sodium Fluoride	E
Lithium Bromide	E	Tin	E	Sodium Hydroxide 10%	E
Lubricating Oil	E	Zinc	E	Sodium Hydroxide 15%	E
		Potassium Acid Sulfate	E	Sodium Hydroxide 35%	E
Machine Oil	E	Potassium Aluminum Sulfate	O	Sodium Hydroxide 70%	E
Magnesium Carbonate	E	Potassium Alum	E	Sodium Hydroxide (satr)	E
Magnesium Chloride	E	Potassium Antimonate	E	Sodium Hypochlorite	E
Magnesium Citrate	E	Potassium Bicarbonate	E	Sodium iodide	E
Magnesium Hydroxide	E	Potassium Bichromate	E	Sodium Nitrate	E
Magnesium Nitrate	E	Potassium Bisulfite	E	Sodium Nitrite	E
Magnesium Sulfate	E	Potassium Borate 1%	E	Sodium Perborate	E
Maleic Acid	E	Potassium Borate	E	Sodium Peroxide	E
Malic Acid	E	Potassium Bromate 10%	E	Sodium Phosphate	E
Mercuric Chloride	G	Potassium Bromate	E	Sodium Phosphate-Acid	G
Mercuric Cyanide	O	Potassium Bromide	E	Sodium Silicate	E
Mercurous Nitrate	G	Potassium Carbonate	E	Sodium Sulfate	E
Mercury	G	Potassium Chlorate (ag)	E	Sodium Sulfide	E
Methane	E	Potassium Chlorate	E	Sodium Sulfite	E
Methyl Salicylate	E	Potassium Chloride	E	Sodium Thiosulfate (Hypo)	E
Methyl Sulfate	E	Potassium Chromate (Aln)	E	Sour Crude Oil	E
Methyl Sulfonic Acid	E	Potassium Chromate (Neut.)	E	Stannic Chloride	E
Methyl Sulfuric Acid	E	Potassium Chromate 40%	E	Stannous Chloride (50%)	E
Milk	E	Potassium Cuprocyanide	E	Stannous Chloride	E
Mineral Oils	E	Potassium Cyanide	E	Starch	E
Mixed Acids (H2SO4 & HNO3)	E	Potassium Dichromate 40%	E	Stearic Acid	E
Molasses	E	Potassium Dichromate	E	Sulfated Detergents	E
Muriatic Acid	E	Potassium Dichrom (Alkaline)	E	Sulfur	E
		Potassium Dichron (Neutral)	E	Sulfur Dioxide Gas - Dry	E
Naptha	E	Potassium Diphosphate	E	Sulfur Trioxide	E
Natural Gas, Dry & Wet	E	Potassium Ferricyanide	E	Sulfur Dioxide - Liquid	L
Nickel Acetate	E	Potassium Ferrocyanide	E	Sulphuric Acid 0-10%	E
Nickel Chloride	E	Potassium Fluoride	E	Sulphuric Acid 10-30%	E
Nickel Nitrate	E	Potassium Hydroxide	E	Sulphuric Acid 30-50%	E
Neck Sulfate	E	Potassium Hypochlorite	G	Sulphuric Acid 50-75%	E
Nickel Sulphate	E	Potassium iodide	E	Sulphuric Acid 75-90%	L
Nicotine	E	Potassium Nitrate	E	Sulphurous Acid	L
Nicotine Acid	E	Potassium Perborate	E		
Nitric Acid 10%	E	Potassium Perchlorite	E	Tan Oil	E
Nitric Acid 20%	G	Potassium Permanganate 10%	E	Tannic Oil	E
Nitric Acid 35%	G	Potassium Permanganate 25%	G	Tanning Liquors	E
Nitric Acid 40%	G	Potassium Persulfate	E	Tartaric Acid	E
Nitric Acid 60%	G	Potassium Sulfate	E	Tetrachloroethane	L
Nitric Acid 68%	L	Potassium Sulfide	E	Tetraethyl Lead	G
Nitropropane	N	Potassium Thiosulfate	E	Tepineol	G
Nitrous Acid (10%)	E	Propane	E	Tin Chloride	E
Nitrous Oxide	E	Propylene Glycol	E	Titanium Tetrachloride	E
		Pyrogallic Acid	L	Toxaphene (90%)	O
Ocenol (Unsaturated Alcohol)	G			Trichloroacetic Acid	E
Oils and Fats	E	Rayon Coagulating Bath	E	Triethanolamine	G
Oleic Acid	E	Rochelle Salts	E	Tri et hyl am i n e	G
Oxalic Acid	E			Trimethyl Propane	L
Oxygen	E	Sea Water	E	Trisodium Phosphate	E
		Salenis Acid (Aqueous)	O	Turpentine	L
Palmitic Acid 10%	E	Salicylaldehyde	L		
Palmitic Acid 70%	L	Salt Water	E	Urea	E
Paraffin	E	Selenic Acid	E	Urine	E
Pentane	L	Sewage	E		
Perchloric Acid 10%	G	Silicic Acid	E	Vegetable Oil	E
Perchloric Acid 15%	G	Silver Cyanide	E	Vinegar	E
Perchloroethylene	O	Silver Nitrate	E		
Petrolatum	E	Silver Sulfate	E	Water - Acid Mine	E
Phenihydrazine - Hydrochloride	L	Soap Solution	E	Water- Distilled	E
Phosgene (Gas)	E	Soaps	E	Water- Fresh	E
Phosphoric Acid 0-25%	E	Sodium Acetate	E	Water - Salt	E
Phosphoric Acid 25-50%	E	Sodium Alum	E	Water - Sewage	E
Phosphoric Acid 50-70%	E	Sodium Acid Sulfate	E	Whiskey	E
Phosphoric Acid - 85%	E	Sodium Aluminate	E	White Gasoline	E
Phosphorous (Yellow)	G	Sodium Antimonate	E	White Liquor (Paper Industry)	E
Phosphorous (Red)	E	Sodium Arsenite	E	Wines	E
Phosphorous Pentoxide	G	Sodium Benzoate	E		
Photographic Chemicals	E	Sodium Bicarbonate	E	Zinc Chloride	E
Photographic Solutions	E	Sodium Bisulfate	E	Zinc Chromate	E
Phthalic Acid	L	Sodium Bisulfite	E	Zinc Cyanide	E
Plating Solutions		Sodium Borate	E	Zinc Nitrate	E
Brass	E	Sodium Bromide	E	Zinc Sulfate	E
Cadmium	E	Sodium Carbonate (Soda Ash)	E		
Chromium	G	Sodium Chlorate	E	Mixture of Acids:	
Copper	E	Sodium Chloride	E	Nitric 15%	
Gold	E	Sodium Chlorite	L	Hydrofluoric 4%	E
Iron	E	Sodium Cyanide	E	Sodium Dichromate 13%	
Judium	E	Sodium Dichromate	E	Nitric Acid 16	
				Water 71 %	E

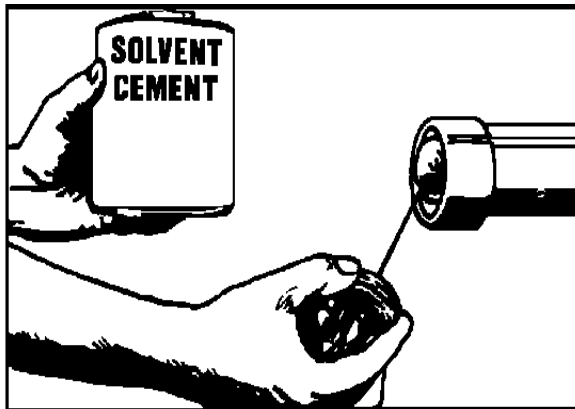
Installation Instructions



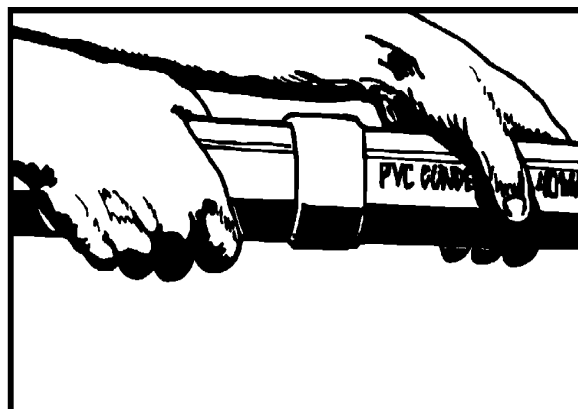
The conduit should be cut square using a hand saw. Larger sizes need the use of a miter box or similar saw guide to insure a square cut.



After cutting, the conduit ends should be cleaned of dust, dirt and shavings. Be sure the conduit is clean and dry.



Apply a thin, even coating of PVC solvent cement to the socket to be joined; apply an even coat of PVC solvent cement to the end of the conduit equal to the depth of the socket to be attached.



Push the conduit and socket firmly together until the conduit bottoms out in the socket. Immediately rotate the conduit one quarter turn to assure even cement spread. Initial set will occur in a few minutes allowing continuous installation.

Conduit Support Spacing

(as described in the NEC section 347-8)

Conduit Size	Maximum Spacing Between Supports (in feet)
½"-1"	3
1 ¼"-2"	5
2 ½"-3"	6
3 ½"-5"	7
6"	8