



**ULTRATECH**  
INTERNATIONAL, INC.

# Ultra-Containment Berm Rapid Rise Model®

## SPECIFICATIONS

### KEY FEATURES AND BENEFITS

- + Sidewalls remain down during normal operations, loading and unloading. Vehicles and equipment can drive in and out with no set-up or take-down required
- + In the case of a spill, the foam ring around the top perimeter of the Containment Berm rises with the level of spilled liquid.
- + Standard materials include PVC and Copolymer 2000™.

### SIDEWALLS

- + Lay flat unless spill occurs - foam ring will rise with liquid level.
- + Eliminates tripping hazards.
- + No set-up required once berm has been positioned in the field.

### COMPLIANCE

- + EPA 40 CFR 264.175 Containment of Containers Containing Free Liquid.
- + EPA 40 CFR 112 (SPCC) - Spill Prevention, Control and Countermeasure Act



Copolymer 2000™ Part#	PVC 22 oz. Part#	Dimensions ft. (m) Wall Height: 12 in. (305 mm)	Containment Capacity gal. (L)	Copolymer 2000™ Weight lbs. (kg)	PVC 22 oz. Weight lbs. (kg)
8430	8654	4 x 6 (1.2 x 1.8)	179 (678)	31.0 (14.0)	24.0 (11.0)
8431	8630	6 x 6 (1.8 x 1.8)	269 (1,018)	37.0 (17.0)	30.0 (14.0)
8432	8631	10 x 10 (3.0 x 3.0)	748 (2,831)	69.0 (31.0)	54.0 (24.5)
8710	8655	12 x 12 (3.7 x 3.7)	1077 (4,077)	85.0 (39.0)	66.0 (30.0)
8437	8656	12 x 26 (3.7 x 7.9)	2,333 (8,831)	151.0 (68.5)	118.0 (54.0)
8711	8632	12 x 30 (3.7 x 9.1)	2,692 (10,190)	171.0 (78.0)	134.0 (61.0)
8712	8657	12 x 40 (3.7 x 12.2)	3,590 (13,590)	218.0 (99.0)	170.0 (77.0)
8713	8633	12 x 50 (3.7 x 15.2)	4,488 (16,989)	266.0 (121.0)	207.0 (94.0)
8714	8658	12 x 60 (3.7 x 18.3)	5,385 (20,384)	313.0 (142.0)	244.0 (111.0)
8715	8659	12 x 72 (3.7 x 22.0)	6,462 (24,461)	370.0 (168.0)	288.0 (131.0)
8716	8660	15 x 15 (4.6 x 4.6)	1,683 (6,371)	115.0 (52.0)	93.0 (42.0)
8717	8661	15 x 20 (4.6 x 6.1)	2,244 (8,495)	141.0 (64.0)	114.0 (52.0)
8718	8662	15 x 30 (4.6 x 9.1)	3,366 (12,742)	195.0 (89.0)	158.0 (72.0)
8719	8663	15 x 40 (4.6 x 12.2)	4,488 (16,989)	248.0 (113.0)	201.0 (91.0)
8433	8664	15 x 50 (4.6 x 15.2)	5,610 (21,234)	302.0 (137.0)	244.0 (111.0)
8720	8665	15 x 60 (4.6 x 18.3)	6,732 (25,483)	356.0 (162.0)	286.0 (130.0)
8434	8666	15 x 66 (4.6 x 20.1)	7,405 (28,028)	388.0 (175.0)	313.0 (142.0)
8721	8667	15 x 72 (4.6 x 21.9)	8,078 (30,579)	420.0 (191.0)	338.0 (153.0)



**PROCEDURE FOR BERM DEPLOYMENT:**

STEP 1: Select a level area and be sure that ground is swept clean of debris and sharp objects. The use of a ground cloth is recommended to prevent puncturing from underneath the berm.

STEP 2: Place the folded berm at the setup location. Do not drag the folded berm. Unfold berm and position as desired. If tread protectors are being used, place these in the unit at this time.

STEP 3: Your berm is ready for use.

**Storage:**

1. Sweep out berm and be sure that it is dry and free of contaminants.
2. Store unit in clean, dry environment.

**Repair and Maintenance:** If a puncture or tear occurs, call for a repair kit. Describe the damage to the service representative to ensure receipt of the proper kit.

**PROPER USE AND BEST PRACTICES**

1. Enter and exit the berm as perpendicular to the sidewall as possible. Angled entry/exit may cause damage.
2. Do not drive over the sidewall (in parallel).
3. Drive slowly, avoiding sudden stops or acceleration.
4. Avoid excessive turns while on the berm.

**PVC MATERIAL SPECS**

	English	Metric	Testing Method
<b>Weight</b>	22 oz./yd <sup>2</sup>	745 g/m <sup>2</sup>	FS 5040 / ASTM D3776
<b>Width</b>	up to 126"	up to 320 cm	-
<b>Count</b>	18 x 16/1"	7 x 7/cm	-
<b>Denier</b>	1300 x 1500	1430 x 1650	-
<b>Grab Tensile</b>	459 x 418 lbs./1"	2042 x 1859 N/2.5 cm	FS 5100 / ASTM D5034
<b>Tongue Tear</b>	140 x 150 lbs./1"	623 x 667 N/2.5 cm	FS 5134 / ASTM 2261
<b>Adhesion</b>	22 lbs./2"	98 N/5 cm	FS 5970 / ASTM D751
<b>Finish</b>	Matte		
<b>Cold Crack</b>	-30°F	-34°C	FS 5874 / ASTM D2136
<b>Treatments</b>	Anti-Mildew, UV Pigments		
<b>Put-Up</b>	75 yds	69 m	

**COPOLYMER-2000 MATERIAL SPECS**

Reinforced	English	Metric	Testing Method
<b>Base Fabric Type</b>	Polyester		
<b>Base Fabric Weight (nominal)</b>	3.0 oz/yd <sup>2</sup>	102 g/m <sup>2</sup>	
<b>Finished Coated Weight</b>	28.0 ± 2 oz/yd <sup>2</sup>	950 ± 70 g/m <sup>2</sup>	ASTM D751
<b>Thickness</b>	30 mils nominal	0.76 mm nominal	ASTM D751
<b>Trapezoid Tear</b>	30/30 lbf nominal	133/133 N nominal	ASTM D4533
<b>Grab Tensile</b>	250/200 lbf min.	1112/890 N min.	ASTM D751 Grab Method
<b>Hydrostatic Resistance</b>	300 psi min.	2.06 MPa min.	ASTM D751, Procedure A
<b>Adhesion</b>	10 lbf/in min.	9.0 daN/5 cm min.	ASTM D751 Dielectric Seam
<b>Cold Crack</b>	Pass @ -25° F	Pass @ -32° C	ASTM D2136 1/8 in mandrel, 4 hr.
<b>Puncture Resistance</b>	50 lbf typical	225 N typical	ASTM D4833
<b>Dead Load</b>	2 in seam, 4 hr, 1 in strip 100 lbf @ 70° F 50 lbf @ 160° F	5 cm seam, 4 hr, 2.5 cm strip 445 N @ 21° C 220 N @ 70° C	ASTM D751



# Ultra-Containment Berm

## Chemical Compatibility Guide

<u>Chemical</u>	<u>XR5</u>	<u>CP2K*</u>	<u>PVC</u>	<u>Chemical</u>	<u>XR5</u>	<u>CP2K*</u>	<u>PVC</u>
Acetaldehyde	T	T	D	Melamine	T	T	D
Acetamide	T	T	D	Mercuric Chloride (dilute)	T	T	A
Acetate Solvent	T	T	D	Mercuric Cyanide	T	T	A
Acetic Acid	B	B	D	Mercurous Nitrate	T	T	A
Acetic Acid 20%	C	C	D	Mercury	T	T	A
Acetic Acid 80%	D	D	C	Methane	T	T	B
Acetic Acid, Glacial	T	T	D	Methanol (Methyl Alcohol)	A	A	A
Acetic Anhydride	T	T	D	Methyl Acetate	T	T	D
Acetone	T	T	D	Methyl Acetone	T	T	D
Acetyl Bromide	T	T	D	Methyl Acrylate	T	T	T
Acetyl Chloride (dry)	T	T	C	Methyl Alcohol 10%	T	T	A
Acetylene	T	T	A	Methyl Bromide	T	T	D
Acrylonitrile	T	T	B	Methyl Butyl Ketone	T	T	A
Adipic Acid	T	T	A	Methyl Cellosolve	T	T	D
AFFF	A	A	T	Methyl Chloride	T	T	D
Alcohols:Amyl	T	T	A	Methyl Dichloride	T	T	A
Alcohols:Benzyl	T	T	D	Methyl Ethyl Ketone	T	T	D
Alcohols:Butyl	T	T	A	Methyl Ethyl Ketone Peroxide	T	T	T
Alcohols:Diacetone	T	T	B	Methyl Isobutyl Ketone	T	T	D
Alcohols:Ethyl	T	T	C	Methyl Isopropyl Ketone	T	T	D
Alcohols:Hexyl	T	T	A	Methyl Methacrylate	T	T	A
Alcohols:Isobutyl	T	T	A	Methylamine	T	T	D
Alcohols:Isopropyl	T	T	A	Methylene Chloride	T	T	D
Alcohols:Methyl	T	T	A	Milk	T	T	A
Alcohols:Octyl	T	T	T	Mineral Spirits	A	A	A
Alcohols:Propyl	T	T	A	Molasses	T	T	A
Aluminum Chloride	T	T	A	Monochloroacetic acid	T	T	T

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Aluminum Chloride 20%	T	T	A	Monoethanolamine	T	T	D
Aluminum Fluoride	T	T	A	Morpholine	T	T	T
Aluminum Hydroxide	T	T	A	Motor oil	T	T	B
Aluminum Nitrate	T	T	B	Mustard	T	T	B
Aluminum Potassium Sulfate 10%	T	T	A	Naphtha	A	A	A
Aluminum Potassium Sulfate 100%	T	T	A	Naphthalene	T	T	D
Aluminum Sulfate	T	T	A	Natural Gas	T	T	A
Alums	T	T	T	Nickel Chloride	T	T	A
Amines	T	T	D	Nickel Nitrate	T	T	A
Ammonia 10%	T	T	B	Nickel Sulfate	T	T	A
Ammonia Nitrate	T	T	B	Nitrating Acid (<15% HNO3)	T	T	D
Ammonia, anhydrous	T	T	A	Nitrating Acid (>15% H2SO4)	T	T	D
Ammonia, liquid	T	T	A	Nitrating Acid (S1% Acid)	T	T	D
Ammonium Acetate	T	T	A	Nitrating Acid (S15% H2SO4)	T	T	D
Ammonium Bifluoride	T	T	A	Nitric Acid (20%)	T	T	A
Ammonium Carbonate	T	T	A	Nitric Acid (50%)	D	D	B
Ammonium Caseinate	T	T	T	Nitric Acid (5-10%)	C	C	A
Ammonium Chloride	T	T	A	Nitric Acid (Concentrated)	T	T	B
Ammonium Hydroxide	A	A	A	Nitrobenzene	T	T	D
Ammonium Nitrate	T	T	A	Nitrogen Fertilizer	T	T	T
Ammonium Oxalate	T	T	A	Nitromethane	T	T	B
Ammonium Persulfate	T	T	A	Nitrous Acid	T	T	A
Ammonium Phosphate, Dibasic	T	T	A	Nitrous Oxide	T	T	A
Ammonium Phosphate, Monobasic	T	T	A	Oils:Aniline	T	T	D
Ammonium Phosphate, Tribasic	T	T	A	Oils:Anise	T	T	T

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Ammonium Sulfate	T	T	A	Oils:Bay	T	T	T
Ammonium Sulfite	T	T	A	Oils:Bone	T	T	T
Ammonium Thiosulfate	T	T	T	Oils:Castor	T	T	A
Amyl Acetate	T	T	D	Oils:Cinnamon	T	T	D
Amyl Alcohol	T	T	A	Oils:Citric	T	T	B
Amyl Chloride	T	T	D	Oils:Clove	T	T	T
Aniline	T	T	C	Oils:Coconut	T	T	A
Aniline Hydrochloride	T	T	B	Oils:Cod Liver	T	T	A
Animal Oil	A	A	T	Oils:Corn	A	A	B
Antifreeze	A	A	A	Oils:Cottonseed	T	T	B
Antimony Trichloride	T	T	A	Oils:Creosote	T	T	C
Aqua Regia (80% HCl, 20% HNO3)	T	T	C	Oils:Crude	A	A	T
Arochlor 1248	T	T	T	Oils:Diesel Fuel (20, 30, 40, 50)	A	A	B
Aromatic Hydrocarbons	D	D	D	Oils:Fuel (1, 2, 3, 5A, 5B, 6)	T	T	A
Arsenic Acid	T	T	A	Oils:Ginger	T	T	T
Arsenic Salts	T	T	A	Oils:Hydraulic Oil (Petro)	A	A	A
Asphalt	T	T	A	Oils:Hydraulic Oil (Synthetic)	D	D	A
ASTM Oil #2 (Flash pt. 240° C)	A	A	T	Oils:Lemon	T	T	T
ASTM Oil #3	A	A	T	Oils:Linseed	A	A	A
Barium Carbonate	T	T	A	Oils:Mineral	T	T	B
Barium Chloride	T	T	A	Oils:Olive	T	T	C
Barium Cyanide	T	T	D	Oils:Orange	T	T	C
Barium Hydroxide	T	T	A	Oils:Palm	T	T	A
Barium Nitrate	T	T	A	Oils:Peanut	T	T	A
Barium Sulfate	T	T	B	Oils:Peppermint	T	T	T
Barium Sulfide	T	T	A	Oils:Pine	T	T	D
Beer	T	T	A	Oils:Rapeseed	T	T	T
Beet Sugar Liquids	T	T	A	Oils:Rosin	T	T	C
Benzaldehyde	T	T	D	Oils:SAE-30	A	A	T
Benzene	T	T	C	Oils:Sesame Seed	T	T	A
Benzene Sulfonic Acid	T	T	A	Oils:Silicone	T	T	A
Benzoic Acid	T	T	A	Oils:Soybean	T	T	A
Benzol	T	T	T	Oils:Sperm (whale)	T	T	T
Benzonitrile	T	T	T	Oils:Tanning	T	T	T
Benzyl Chloride	T	T	T	Oils:Transformer	A	A	B

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Bleaching Liquors	T	T	A	Oils:Turbine	T	T	A
Borax (Sodium Borate)	T	T	A	Oleic Acid	T	T	C
Boric Acid	T	T	A	Oleum 100%	T	T	D
Brewery Slop	T	T	T	Oleum 25%	T	T	D
Bromine	T	T	C	Oxalic Acid (cold)	T	T	B
Butadiene	T	T	C	Ozone	T	T	B
Butane	T	T	C	Palmitic Acid	T	T	B
Butanol (Butyl Alcohol)	T	T	C	Paraffin	T	T	B
Butter	T	T	T	Pentane	T	T	A
Buttermilk	T	T	A	Perchloric Acid	T	T	C
Butyl Amine	T	T	D	Perchloroethylene	D	D	C
Butyl Ether	T	T	A	Petrolatum	T	T	B
Butyl Phthalate	T	T	T	Petroleum	T	T	T
Butylacetate	T	T	D	Phenol (10%)	T	T	C
Butylene	T	T	A	Phenol (Carbolic Acid)	T	T	D
Butyric Acid	T	T	B	Phenol Formaldehyde	C	C	T
Calcium Bisulfate	T	T	T	Phosphoric Acid (>40%)	T	T	B
Calcium Bisulfide	T	T	A	Phosphoric Acid (crude)	T	T	B
Calcium Bisulfite	T	T	B	Phosphoric Acid (molten)	T	T	D
Calcium Carbonate	T	T	A	Phosphoric Acid (S40%)	T	T	B
Calcium Chlorate	T	T	B	Phosphoric Acid Anhydride	T	T	T
Calcium Chloride	T	T	C	Phosphorus	T	T	A
Calcium Hydroxide	T	T	B	Phosphorus Trichloride	T	T	D
Calcium Hypochlorite	T	T	B	Photographic Developer	T	T	A
Calcium Nitrate	T	T	A	Photographic Solutions	T	T	A
Calcium Oxide	T	T	B	Phthalic Acid	T	T	T
Calcium Sulfate	T	T	B	Phthalic Anhydride	T	T	D
Calgon	T	T	T	Picric Acid	T	T	D
Cane Juice	T	T	A	Plating Solutions, Antimony Plating 130°F	T	T	A
Carbolic Acid (Phenol)	T	T	D	Plating Solutions, Arsenic Plating 110°F	T	T	A

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Carbon Bisulfide	T	T	D	Plating Solutions, Brass Plating: High-Speed Brass Bath 110°F	T	T	A
Carbon Dioxide (dry)	T	T	A	Plating Solutions, Brass Plating: Regular Brass Bath 100°F	T	T	A
Carbon Dioxide (wet)	T	T	A	Plating Solutions, Bronze Plating: Cu-Cd Bronze Bath R.T.	T	T	A
Carbon Disulfide	T	T	D	Plating Solutions, Bronze Plating: Cu-Sn Bronze Bath 160°F	T	T	D
Carbon Monoxide	T	T	A	Plating Solutions, Bronze Plating: Cu-Zn Bronze Bath 100°F	T	T	A
Carbon Tetrachloride	T	T	D	Plating Solutions, Cadmium Plating: Cyanide Bath 90°F	T	T	A
Carbon Tetrachloride (dry)	T	T	T	Plating Solutions, Cadmium Plating: Fluoborate Bath 100°F	T	T	A
Carbon Tetrachloride (wet)	T	T	T	Plating Solutions, Chromium Plating: Barrel Chrome Bath 95°F	T	T	A
Carbonated Water	T	T	A	Plating Solutions, Chromium Plating: Black Chrome Bath 115°F	T	T	A
Carbonic Acid	T	T	A	Plating Solutions, Chromium Plating: Chromic-Sulfuric Bath 130°F	T	T	A
Catsup	T	T	A	Plating Solutions, Chromium Plating: Fluoride Bath 130°F	T	T	A
Chloric Acid	T	T	A	Plating Solutions, Chromium Plating: Fluosilicate Bath 95°F	T	T	A

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Chlorinated Glue	T	T	T	Plating Solutions, Copper Plating (Acid): Copper Fluoborate Bath 120°F	T	T	A
Chlorine (dry)	T	T	D	Plating Solutions, Copper Plating (Acid): Copper Sulfate Bath R.T.	T	T	A
Chlorine Solution 20%	A	A	T	Plating Solutions, Copper Plating (Cyanide): Copper Strike Bath 120°F	T	T	A
Chlorine Water	T	T	A	Plating Solutions, Copper Plating (Cyanide): High- Speed Bath 180°F	T	T	D
Chlorine, Anhydrous Liquid	T	T	D	Plating Solutions, Copper Plating (Cyanide): Rochelle Salt Bath 150°F	T	T	D
Chloroacetic Acid	T	T	B	Plating Solutions, Copper Plating (Misc): Copper (Electroless)	T	T	A
Chlorobenzene (Mono)	T	T	D	Plating Solutions, Copper Plating (Misc): Copper Pyrophosphate	T	T	A
Chlorobromomethane	T	T	D	Plating Solutions, Gold Plating: Acid 75°F	T	T	A
Chloroform	T	T	D	Plating Solutions, Gold Plating: Cyanide 150°F	T	T	D
Chlorosulfonic Acid	T	T	D	Plating Solutions, Gold Plating: Neutral 75°F	T	T	A
Chocolate Syrup	T	T	T	Plating Solutions, Indium Sulfamate Plating R.T.	T	T	A

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Chromic Acid 10%	T	T	A	Plating Solutions, Iron Plating: Ferrous Am Sulfate Bath 150°F	T	T	D
Chromic Acid 30%	T	T	A	Plating Solutions, Iron Plating: Ferrous Chloride Bath 190°F	T	T	D
Chromic Acid 5%	T	T	A	Plating Solutions, Iron Plating: Ferrous Sulfate Bath 150°F	T	T	D
Chromic Acid 50%	T	T	D	Plating Solutions, Iron Plating: Fluoborate Bath 145°F	T	T	D
Chromium Salts	T	T	A	Plating Solutions, Iron Plating: Sulfamate 140°F	T	T	A
Cider	T	T	A	Plating Solutions, Iron Plating: Sulfate- Chloride Bath 160°F	T	T	D
Citric Acid	T	T	B	Plating Solutions, Lead Fluoborate Plating	T	T	A
Citric Oils	T	T	T	Plating Solutions, Nickel Plating: Electroless 200°F	T	T	D
Clorox (Bleach)	A	A	A	Plating Solutions, Nickel Plating: Fluoborate 100-170°F	T	T	A
Coffee	T	T	T	Plating Solutions, Nickel Plating: High- Chloride 130-160°F	T	T	D
Copper Chloride	T	T	A	Plating Solutions, Nickel Plating: Sulfamate 100-140°F	T	T	A
Copper Cyanide	T	T	A	Plating Solutions, Nickel Plating: Watts Type 115-160°F	T	T	D

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Copper Fluoborate	T	T	A	Plating Solutions, Rhodium Plating 120°F	T	T	A
Copper Nitrate	T	T	A	Plating Solutions, Silver Plating 80-120°F	T	T	A
Copper Sulfate >5%	T	T	A	Plating Solutions, Tin- Fluoborate Plating 100°F	T	T	A
Copper Sulfate 5%	T	T	A	Plating Solutions, Tin- Lead Plating 100°F	T	T	A
Cream	T	T	T	Plating Solutions, Zinc Plating: Acid Chloride 140°F	T	T	A
Cresols	T	T	D	Plating Solutions, Zinc Plating: Acid Fluoborate Bath R.T.	T	T	A
Cresylic Acid	T	T	D	Plating Solutions, Zinc Plating: Acid Sulfate Bath 150°F	T	T	D
Cupric Acid	T	T	A	Plating Solutions, Zinc Plating: Alkaline Cyanide Bath R.T.	T	T	A
Cyanic Acid	T	T	T	Potash (Potassium Carbonate)	T	T	A
Cyclohexane	T	T	D	Potassium Bicarbonate	T	T	A
Cyclohexanone	T	T	D	Potassium Bromide	T	T	A
Detergents	T	T	A	Potassium Chlorate	T	T	A
Diacetone Alcohol	T	T	D	Potassium Chloride	T	T	A
Dichlorobenzene	T	T	D	Potassium Chromate	T	T	A
Dichloroethane	T	T	D	Potassium Cyanide Solutions	T	T	A
Diesel Fuel	A	A	A	Potassium Dichromate	T	T	A
Diethyl Ether	T	T	D	Potassium Ferricyanide	T	T	A
Diethylamine	T	T	D	Potassium Ferrocyanide	T	T	A
Diethylene Glycol	T	T	C	Potassium Hydroxide (Caustic Potash)	T	T	A

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Dimethyl Aniline	T	T	D	Potassium Hypochlorite	T	T	B
Dimethyl Formamide	T	T	D	Potassium Iodide	T	T	A
Diphenyl	T	T	T	Potassium Nitrate	T	T	A
Diphenyl Oxide	T	T	D	Potassium Oxalate	T	T	T
Dyes	T	T	B	Potassium Permanganate	T	T	A
Epsom Salts (Magnesium Sulfate)	T	T	A	Potassium Sulfate	T	T	A
Ethane	T	T	A	Potassium Sulfide	T	T	A
Ethanol	A	A	C	Propane (liquefied)	T	T	A
Ethanolamine	T	T	D	Propylene	T	T	B
Ether	T	T	D	Propylene Glycol	T	T	C
Ethyl Acetate	D	D	D	Pyridine	T	T	D
Ethyl Alcohol	A	A	T	Pyrogallic Acid	T	T	A
Ethyl Benzoate	T	T	D	Resorcinal	T	T	C
Ethyl Chloride	T	T	D	Rosins	T	T	C
Ethyl Ether	T	T	D	Rum	T	T	A
Ethyl Sulfate	T	T	T	Rust Inhibitors	T	T	T
Ethylene Bromide	T	T	D	Salad Dressings	T	T	T
Ethylene Chloride	T	T	D	Salicylic Acid	T	T	B
Ethylene Chlorohydrin	T	T	D	Salt Brine (NaCl saturated)	T	T	A
Ethylene Diamine	T	T	D	Salt Water (25%)	C	C	T
Ethylene Dichloride	T	T	D	Sea Water	A	A	A
Ethylene Glycol	T	T	A	Shellac (Bleached)	T	T	T
Ethylene Oxide	T	T	D	Shellac (Orange)	T	T	T
Fatty Acids	T	T	A	Silicone	T	T	A
Ferric Chloride	T	T	A	Silver Bromide	T	T	T
Ferric Nitrate	T	T	A	Silver Nitrate	T	T	A
Ferric Sulfate	T	T	A	Soap Solutions	T	T	A
Ferrous Chloride	T	T	A	Soda Ash (see Sodium Carbonate)	T	T	A
Ferrous Sulfate	T	T	A	Sodium Acetate	T	T	B
Fertilizer Solution	A	A	T	Sodium Aluminate	T	T	T
Fluoboric Acid	T	T	A	Sodium Benzoate	T	T	B
Fluorine	T	T	D	Sodium Bicarbonate	T	T	A
Fluosilicic Acid	T	T	D	Sodium Bisulfate	T	T	A
Formaldehyde 100%	T	T	A	Sodium Bisulfite	T	T	A
Formaldehyde 40%	T	T	A	Sodium Borate (Borax)	T	T	A
Formic Acid	T	T	A	Sodium Bromide	T	T	B
Freon 113	T	T	B	Sodium Carbonate	T	T	A

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<u>Chemical</u>	<u>XR5</u>	<u>CP2K*</u>	<u>PVC</u>	<u>Chemical</u>	<u>XR5</u>	<u>CP2K*</u>	<u>PVC</u>
Freon 12	T	T	A	Sodium Chlorate	T	T	A
Freon 22	T	T	A	Sodium Chloride	T	T	A
Freon TF	T	T	B	Sodium Chromate	T	T	T
Freon 11	T	T	A	Sodium Cyanide	T	T	A
Fruit Juice	T	T	A	Sodium Ferrocyanide	T	T	A
Fuel Oils	A	A	A	Sodium Fluoride	T	T	A
Furan Resin	T	T	A	Sodium Hydrosulfite	T	T	C
Furfural	T	T	D	Sodium Hydroxide (20%)	T	T	A
Gallic Acid	T	T	B	Sodium Hydroxide (50%)	A	A	A
Gasoline (high-aromatic)	T	T	A	Sodium Hydroxide (80%)	T	T	A
Gasoline, leaded, ref.	T	T	B	Sodium Hypochlorite (<20%)	T	T	A
Gasoline, unleaded	T	T	C	Sodium Hypochlorite (100%)	T	T	B
Gelatin	T	T	B	Sodium Hyposulfate	T	T	T
Glucose	T	T	A	Sodium Metaphosphate	T	T	A
Glue, P.V.A.	T	T	C	Sodium Metasilicate	T	T	A
Glycerin	A	A	A	Sodium Nitrate	T	T	A
Glycolic Acid	T	T	B	Sodium Perborate	T	T	A
Gold Monocyanide	T	T	T	Sodium Peroxide	T	T	B
Grape Juice	T	T	A	Sodium Polyphosphate	T	T	A
Grease	T	T	A	Sodium Silicate	T	T	A
Heptane	T	T	C	Sodium Sulfate	T	T	A
Hexane	T	T	B	Sodium Sulfide	T	T	A
Honey	T	T	A	Sodium Sulfite	T	T	A
Hydraulic Oil (Petro)	T	T	A	Sodium Tetraborate	T	T	A
Hydraulic Oil (Synthetic)	T	T	A	Sodium Thiosulfate (hypo)	T	T	A
Hydrazine	T	T	T	Sorghum	T	T	T
Hydrobromic Acid 100%	T	T	A	Soy Sauce	T	T	T
Hydrobromic Acid 20%	T	T	B	Stannic Chloride	T	T	A
Hydrochloric Acid 100%	T	T	D	Stannic Fluoborate	T	T	T
Hydrochloric Acid 20%	A	A	A	Stannous Chloride	T	T	A
Hydrochloric Acid 37%	A	A	B	Starch	T	T	A

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<u>Chemical</u>	<u>XR5</u>	<u>CP2K*</u>	<u>PVC</u>	<u>Chemical</u>	<u>XR5</u>	<u>CP2K*</u>	<u>PVC</u>
Hydrochloric Acid, Dry Gas	T	T	A	Stearic Acid	T	T	B
Hydrocyanic Acid	T	T	B	Stoddard Solvent	T	T	C
Hydrocyanic Acid (Gas 10%)	T	T	A	Styrene	T	T	D
Hydrofluoric Acid 100%	T	T	C	Sugar (Liquids)	T	T	T
Hydrofluoric Acid 20%	A	A	B	Sulfate (Liquors)	T	T	B
Hydrofluoric Acid 50%	T	T	B	Sulfur Chloride	T	T	C
Hydrofluoric Acid 75%	T	T	C	Sulfur Dioxide	T	T	A
Hydrofluosilicic Acid 100%	T	T	B	Sulfur Dioxide (dry)	T	T	A
Hydrofluosilicic Acid 20%	T	T	A	Sulfur Hexafluoride	T	T	B
Hydrogen Gas	T	T	A	Sulfur Trioxide	T	T	A
Hydrogen Peroxide 10%	T	T	A	Sulfur Trioxide (dry)	T	T	A
Hydrogen Peroxide 100%	T	T	A	Sulfuric Acid (<10%)	T	T	A
Hydrogen Peroxide 30%	T	T	A	Sulfuric Acid (10-75%)	A	A	A
Hydrogen Peroxide 50%	T	T	A	Sulfuric Acid (75-100%)	T	T	D
Hydrogen Sulfide (aqua)	T	T	B	Sulfuric Acid (cold concentrated)	T	T	D
Hydrogen Sulfide (dry)	T	T	A	Sulfuric Acid (hot concentrated)	T	T	D
Hydroquinone	T	T	B	Sulfurous Acid	T	T	A
Hydroxyacetic Acid 70%	T	T	D	Sulfuryl Chloride	T	T	T
Ink	T	T	C	Tallow	T	T	T
Iodine	T	T	A	Tannic Acid	A	A	A
Iodine (in alcohol)	T	T	A	Tanning Liquors	T	T	A
Iodoform	T	T	A	Tartaric Acid	T	T	A
Isooctane	A	A	A	Tetrachloroethane	T	T	C
Isopropyl Acetate	T	T	D	Tetrachloroethylene	T	T	D
Isopropyl Ether	T	T	B	Tetrahydrofuran	T	T	D
Isotane	T	T	A	Tin Salts	T	T	A
Jet A	A	A	T	Toluene (Toluol)	D	D	D
Jet Fuel (JP3, JP4, JP5)	A	A	C	Tomato Juice	T	T	A
Kerosene	A	A	A	Trichloroacetic Acid	T	T	B

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<u>Chemical</u>	<u>XR5</u>	<u>CP2K*</u>	<u>PVC</u>	<u>Chemical</u>	<u>XR5</u>	<u>CP2K*</u>	<u>PVC</u>
Ketones	T	T	D	Trichloroethane	T	T	C
Lacquer Thinners	T	T	D	Trichloroethylene	T	T	D
Lacquers	T	T	D	Trichloropropane	T	T	T
Lactic Acid	T	T	B	Tricresylphosphate	T	T	D
Lard	T	T	A	Triethylamine	T	T	B
Latex	T	T	T	Trisodium Phosphate	T	T	A
Lead Acetate	T	T	B	Turpentine	A	A	D
Lead Nitrate	T	T	A	Urea	T	T	D
Lead Sulfamate	T	T	B	Uric Acid	T	T	A
Ligroin	T	T	T	Urine	T	T	A
Lime	T	T	B	Varnish	T	T	D
Linoleic Acid	T	T	A	Vegetable Juice	T	T	T
Lithium Chloride	T	T	D	Vegetable Oil	A	A	T
Lithium Hydroxide	T	T	T	Vinegar	T	T	B
Lubricants	T	T	B	Vinyl Acetate	T	T	D
Lye: Ca(OH) <sub>2</sub> Calcium Hydroxide	T	T	B	Vinyl Chloride	T	T	D
Lye: KOH Potassium Hydroxide	T	T	B	Water, Acid, Mine	T	T	B
Lye: NaOH Sodium Hydroxide	T	T	A	Water, Deionized	T	T	A
Magnesium Bisulfate	T	T	A	Water, Distilled	T	T	A
Magnesium Carbonate	T	T	B	Water, Fresh	T	T	B
Magnesium Chloride	T	T	B	Water, Salt	T	T	B
Magnesium Hydroxide	T	T	A	Weed Killers	T	T	T
Magnesium Nitrate	T	T	A	Whey	T	T	T
Magnesium Oxide	T	T	T	Whiskey & Wines	T	T	A
Magnesium Sulfate (Epsom Salts)	T	T	A	White Liquor (Pulp Mill)	T	T	A
Maleic Acid	T	T	A	White Water (Paper Mill)	T	T	A
Maleic Anhydride	T	T	T	Xylene	T	T	D
Malic Acid	T	T	A	Zinc Chloride	T	T	B
Manganese Sulfate	T	T	C	Zinc Hydrosulfite	T	T	T
Mash	T	T	T	Zinc Sulfate	T	T	A
Mayonnaise	T	T	D				

NOTICE: This report is offered as a guide and was developed from information which, to the best of UltraTech International, Inc's. knowledge, was reliable and accurate. Due to variables and conditions of application beyond UltraTech International, Inc's. control, none of the data shown in this guide is to be construed as a guarantee, expressed, or implied. UltraTech assumes no responsibility, obligation, or liability in conjunction with the use or misuse of the information.

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**Ratings -- Chemical Effect**

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration.

C = Fair -- Moderate Effect, not recommended for continuous use. Softening, loss of strength, swelling may occur.

D = Severe Effect, not recommended for ANY use.

T = Not Tested

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# Ultra-Containment Berm<sup>®</sup> Comparison Guide



Description (Click for more information)	Cost	Drive-in/out	Set-up Required (beyond initial deployment)	Standard Height	Other Heights Available	Standard Material	Other Materials Available
<a href="#">Collapsible Wall Model</a>	\$	-	Yes	12"	18", 24"	Copolymer-2000	PVC, XR5, Urethane
<a href="#">Compact Model</a>	\$\$\$	-	Yes	12"	-	Copolymer-2000	PVC, XR5, Urethane
<a href="#">Economy Model</a>	\$	-	Yes	12"	18", 24"	Copolymer-2000	PVC, XR5, Urethane
<a href="#">Foam Wall Model</a>	\$\$	4 Sides	No	4"	2", 6"	Copolymer-2000	PVC, XR5, Urethane
<a href="#">Modular Model (Gorilla Berm)</a>	\$\$\$	4 Sides	No	6"	-	PVC 38	Copolymer-2000, XR5, Urethane
<a href="#">Rapid Rise</a>	\$\$	4 Sides	No	12"	18"	Copolymer-2000	PVC, XR5, Urethane
<a href="#">Stake Wall Model</a>	\$\$\$	4 Sides	No	12"	-	Copolymer-2000	PVC, XR5, Urethane
<a href="#">Ultimate Model</a>	\$\$	2 Sides	Only 2 Long Slides	12"	-	Copolymer-2000	PVC, XR5, Urethane
<a href="#">Containment Wall</a>	\$\$\$	-	Yes	36"	12", 24"	Polyethylene	Call
<a href="#">Mini Foam Wall Model</a>	\$	4 Sides	No	6"	-	PVC	Call

Berm Fabric Material	Weight	Thickness	Min Temp	Max Temp	Cold Crack	Tear Strength	Puncture Resistance
Copolymer-2000	30 oz/yd <sup>2</sup>	30 mils nominal	-25°F	160°F	-25°F	30 lb <sub>f</sub> nominal	50 lb <sub>f</sub> typical
Urethane	23 oz/yd <sup>2</sup>	25 mils nominal	-45°F	160°F	-45°F	58 lb <sub>f</sub> nominal	750 lb <sub>f</sub>
PVC	22 oz/yd <sup>2</sup>	24 mils nominal	-30°F	145°F	-30°F	46 lb <sub>f</sub> nominal	91 lb <sub>f</sub>
XR5	30 oz/yd <sup>2</sup>	30 mils minimum	-30°F	160°F	-30°F	55 lb <sub>f</sub> nominal	250 lb <sub>f</sub> minimum
PVC 38	24 oz/yd <sup>2</sup>	38 mil	-30°F	145°F	-30°F	224 lb Warp/133 lb Fill	70 lb minimum



Collapsible Wall



Compact



Economy



Foam Wall



Modular (Gorilla)



Rapid Rise



Stake Wall



Containment Wall



Mini Foam Wall