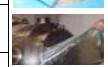
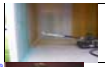
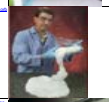
Product Name	Manufacturer	Strippable	Application	Price/Coverage	Use	Advantages	Recommended Use	Pre-treat uses:	Documents:	Web:	Pictures:	Contact:	Category	pH	Ingredients - (CAS Registry #) - %W	SG	Viscosity	Solubility in Water	Virucidal by Vol.	Incompatibility:	Conditions to Avoid:	Hazardous Decomposition Products	HMIS Rating	Minimum Recommended Thickness	Density	Shelf Life	Combustion	Flash Point
DECON PEEL 5201 Halogen Free	General Chem Corp.	Yes	Apply the product as received using an airless spray to proper thickness (recommended a minimur of 10-mils) may also be applied with a roller or brush. Aprox. 1 to 3 hour of drying time depending on the film thickness. The coating incompasses contaminants into the film mass. For airless equipment recommended to use a .015-to .017 nozzle at 1200-1500 psi. It is removed by peeling. More than one application is recommended.	200 sqft/ gal at 8 mils.	Used to immobilize radioactive contamination, minimize exposure and facilitate consequent decontamination.	Protects metals, glass, acrylics. Chlorine free. Non-flammable. Easy application and easy removal. It is well stabilized against antiblemish will not be softened or penetrated by solvent based paints.	The product is used as a protector of objects from contamination by covering the object that will be contaminated and then spraying this coating again to sandwich the contaminants. Then remove by peeling.	Not Available	Info. Sheet, MSDS	http://www.nrcpublishing.com/products/Decontamination/DeconPeel_5201.aspx		Method Shah mehs@generalchem.com General Chemical Corp 12336 Emerson Drive, Brighton, Michigan, 48116 USA. 248 587 5600 (PH) 248 587 5606 (FX)	Strippable	pH - 8-9	Emulsion Resin - (Trade Secret) >40 %W Titanium Dioxide - (1317-80-2) 5-10 %W Water - (7732-18-5) <50 %W	1.05-1.15		100%	99.5%	Strong Oxidizing Agents	Excessive heat.	May form oxides of carbon and nitrogen.						
DECON PEEL 2400 Heavy Duty Decontamination pH Neutral Chemical, nuclear Equipment	General Chem Corp.	Yes	DeconPeel_2400 is normally used as received. Can be applied by an airless sprayer, a roller or a brush. Aprox. 1 to 3 hours drying time depending on film thickness.	100-97/gal aprox - coverage 200 sqft/ gal at 8 mils.	Nuclear Equipment (Works best on Metals)	Biodegradable/non flammable. Neutral pH. Easy application and easy removal.		Not Available	Info. Sheet, MSDS	http://www.nrcpublishing.com/products/Decontamination/DeconPeel_2400.aspx		Method Shah mehs@generalchem.com General Chemical Corp 12336 Emerson Drive, Brighton, Michigan, 48116 USA. 248 587 5600 (PH) 248 587 5606 (FX)	Water removeable/Strippable	pH - 7-8		1.03-1.05		0	Acids and Alkalis	Freezing and excessive heat.					Non-Flammable	None
DECON KLEAN 1850	General Chem Corp.	None	Decontaken, liquid cleaner, can be used as received (highly concentrated) or dilute in water, depending upon the severity of the soils to be removed. When used with mechanical agitation as in a floor scrubber, Decontaken can be diluted up to 5% (1:20).	160 sft/ gal	Floors, walls and equipment (including tools). Clean of loose particles.	Non-toxic, non-flammable. Biodegradable. Decontaken is safe and effective for use on virtually all surfaces such as concrete and tile floors, painted surfaces, fabrics, plastics, rubber, neoprene, nylon, glass and most metals.		NA	Info. Sheet	http://www.nrcpublishing.com/products/Decontamination/DeconKlean.aspx		Method Shah mehs@generalchem.com General Chemical Corp 12336 Emerson Drive, Brighton, Michigan, 48116 USA. 248 587 5600 (PH) 248 587 5606 (FX)	Strippable	pH - 7-9	Acrylic Polymer (800984-92584?) 30-50 %W Vinyl Acetate Monomer (108-05-4) 0.2-0.5 Water (7732-18-5) 40-60 %W	1.07-1.09		100%	99.5%	Strong Oxidizing Agents	Excessive heat.						
DECON PEEL NUCLEAR 2050	General Chem Corp.	Yes	It can be applied by spray, roll or brush. The sprayed coating dries, depending on the film thickness, in 30 minutes to 4 hours.	Aprox. (147/gal) 50 sqft/gal		Non-hazardous/non-toxic solution. Good on floor walls and equipment (including reactor cavities glove boxes and hot cells). Can be used to remove radioactive contamination or as a barrier to prevent spreading of contamination.		NA	Info. Sheet	http://www.nrcpublishing.com/products/Decontamination/DeconPeel_Nuclear_2050.aspx		Method Shah mehs@generalchem.com General Chemical Corp 12336 Emerson Drive, Brighton, Michigan, 48116 USA. 248 587 5600 (PH) 248 587 5606 (FX)	Strippable	pH - 8-9	Acrylic, Vinyl, Polymers 55-80%W Water (7732 -18-5) 40-55 %W	1.07		100%	99.5%	Strong Oxidizing Agents							
DECON PASTE 2510	General Chem Corp.	Yes	Can be applied with an airless spray equipment, brush or roller. Mix of 100 microns of dry film thickness is required.		Designed for porous surfaces.	Viscous, designed for perforated or porous areas.		NA	Info. Sheet, MSDS	http://www.nrcpublishing.com/products/Decontamination/DeconPaste_2510.aspx		Method Shah mehs@generalchem.com General Chemical Corp 12336 Emerson Drive, Brighton, Michigan, 48116 USA. 248 587 5600 (PH) 248 587 5606 (FX)	Strippable	pH - 7.5-8.5	Water (7732-18-5) 40-50 %W Acrylic/Vinyl Acetate Copolymers 50-60 %W	1.115		100%	99.50	Strong Oxidizing Agents							
CC FIX	InstaCote, Inc.	No	CC Fix is typically applied over CC Wet. CC Fix is applied using garden sprayers and airless paint sprayers. It successfully adheres to floors, ceilings, walls and other contaminated surfaces. More than one coats are recommended. This is the final step of a two step approach, it should be applied over the CC Wet.	1600.00 per 5 gallon pail			Non hazardous, water based solution, non - toxic fixative	Used at The Hanford Site over CC Wet on building 313 contaminated with beryllium, this product allowed controlled demolition without risk of re-suspension to the workers or the environment" (see project profile)	Fact Sheet, MSDS, Project Report	http://instacote.com/cc-fix.html		Shirley Stearns shirley.stearns@instacote.com 7743 847 - 5260 (PH) (866) 867 - 8220 (FAX) 1605 C. Lacey Road, Erie, MI 48133	Fixative	pH - 7.3	Water (7732-18-5) 40-50 %W Modified Acrylic Polymer(s) (Trade Secret) 20-25% Butyl Acrylic Polymer (25067-02-0) 10-30% W Poly (oxy-1,2-ethanediyl), alpha(4-nonylphenyl)-omega - hydroxy (127087-87-0) <2% Vinyl acetate (108-05-4) 0.02 - 0.04% Acetaldehyde (75- 07-0) <0.01% Ammonia (7664-41-7) 0.01- 0.03% Other Additives (Trade Secret) 0-5%	1.1	250 cP @ 72F	100%		Strong Acids or Strong Alkalis	Do not allow Freezing	Oxides of Carbon	Health 0 Flammability 0 Reactivity 0		9.1 lbs/gal		
CC FIX LV	InstaCote, Inc.	No	CC Fix is typically applied over CC Wet. CC Fix can be brushed, rolled, misted or spray applied. Spray application can best be accomplished with a hand pump, metal canister spray and with fan tip. More than one coats are recommended.	1550.00 per 5 gallon pail 310.0 ft^2/gal	Designed for hot cells and other high radiation/contamination areas, avoids exposure within these areas of concern.	Low viscosity permanently stabilizes radiological and other hazardous contamination.		Used at an DRNL facility (building 850?). It was used to stabilize contamination in place until demolition took place. (See Project Profile)	Fact Sheet, MSDS, Project Profile	http://instacote.com/cc-fix-lv.html		Shirley Stearns shirley.stearns@instacote.com 7743 847 - 5260 (PH) (866) 867 - 8220 (FAX) 1605 C. Lacey Road, Erie, MI 48133	Fixative	pH - 7.3	Water (7732-18-5) 40-50 %W Modified Acrylic Polymer(s) (Trade Secret) 20-25% Butyl Acrylic Polymer (25067-02-0) 20-30% W Poly (oxy-1,2-ethanediyl), alpha(4-nonylphenyl) -omega - hydroxy (127087-87-0) <2% Vinyl acetate (108-05-4) 0.02 - 0.04% Acetaldehyde (75- 07-0) <0.01% Ammonia (7664-41-7) 0.01- 0.04% Other Additives (Trade Secret) 3-5%	1.1	250 cP @ 72F	100%		Strong Acids or Strong Alkalis	Do not allow Freezing	Oxides of Carbon	Health 0 Flammability 0 Reactivity 0				
CC WET (use with CC Fix)	InstaCote, Inc.	No	CC Wet can be applied a using a garden canister spray unit with fan tip. The very fine mist has actually no impingement energy and will not cause contaminate particles to become airborne. This the first of a two step approach. The use of this product before a applying a fixative (CC FIX) would prevent the re-suspension of loose contamination.	1475.00 per 5 gallon pail 1250 ft^2/gal	Recommended for inaccessible areas such as ducts, areas behind and under equipment, overhead pipes, etc.	Non toxic/non hazardous. Reduces airborne contamination. Greatly reduces exposure risk. Creates a hard coating.		Used at The Hanford Site along with the CC Fix. Allowed contractor/workers to perform an demolition of Building 313. (see project profile)	Fact Sheet, MSDS, Project Profile	http://www.instacote.com/wet.html		Shirley Stearns shirley.stearns@instacote.com 7743 847 - 5260 (PH) (866) 867 - 8220 (FAX) 1605 C. Lacey Road, Erie, MI 48133	Fixative (Water Based)	pH - 8.5	Distilled Water (7732-18-5) Glycerin (56- 81-5) Monosaccharide (57-50- 1) Non-ionic Surfactant (101-21-3) Non-fulugerated yellow dye (6358-69-9, 59125-99-6)	1.05	31 cps	100%		None Known							
CC STRIP	InstaCote,Inc	Yes	CC Strippable can be brushed, rolled, misted or spray applied. Spray application can best be accomplished with a hand pump, metal canister spray unit with fan tip. This is the final step in a two step approach, previously using the CC Wet.	1490.00 per 5 gallon pail 310 ft^2/gal		CC Strippable coating. Removes radiological beryllium and other hazardous contamination.		Used in an experimental radiological dispersal exercise by Homeland Security. (See project profile)	Fact Sheet, MSDS, Project Profile	http://instacote.com/cc-strip.html		Shirley Stearns shirley.stearns@instacote.com 7743 847 - 5260 (PH) (866) 867 - 8220 (FAX) 1605 C. Lacey Road, Erie, MI 48133	Strippable	pH - 7.0 - 9.0	Butyl acrylate polymer (25067- 05-0) <51% Poly (oxy -1, 2- ethanediyl), alpha (4-nonylphenyl) - omega - hydroxy (127087-87- 0) <2% Vinyl acetate (108-05-4) 0.03-0.05 Acetaldehyde (75-07-0) <0.02 Propylene glycol (57-55-6) 2-3% Degreated hydrocarbon solvent (7732-18-5) 8-10% Water (7732-18-5) 35-40% Other additives (Trade secret) 1-2%	1.0 - 1.2	NA	100%		None Known	Do not allow Freezing						
CC EPOXY 609 (Pipe Stabilizer)	InstaCote,Inc	No	CC Epoxy 609 resine and curing agent are mixed using a hand-held drill motor turbine mixer and poured in place. The liquid CC Epoxy 609 has an initial viscosity similar to water and rapidly cures to a solid in approximately 10 minutes. Once cured, the contamination is locked down and can be size reduced at anytime in the future.	1336.46 per 1 gallon kit	CC Epoxy is a fixative control agent used to effectively grout **piping/plumbin g** closed and will render any contamination within pipe locked down.	Increases productivity and reduces risk during size reduction of pipes by preventing re-suspension and spread of contamination. Delivery of This product into pipelines allows collection of residual process liquids.	Used to stabilize pipes at building 886 at Rocky Flats. Where it eliminated spread of contamination.	Fact Sheet, MSDS, Project Profile	http://instacote.com/cc-epoxy.html		Shirley Stearns shirley.stearns@instacote.com 7743 847 - 5260 (PH) (866) 867 - 8220 (FAX) 1605 C. Lacey Road, Erie, MI 48133	Fixative	Resine: PH N/A Curing Agent: pH :	Resine Epoxy Resine (25068-38-6) >60% Acrylate Monomer (13048- 33-4) <10% Curing Agent: Triethylenetetramine 100%	Resine: 1.1 Curing Agent: 0.98		<0.01%								
CC F207 (Sludge Stabilization)	InstaCote Inc.	No	CC F 207 is pumped or poured into process tanks. It is packaged in both 5 gallon and 55 gallon containers.	Pending	Stabilized tank residues that have potential for resuspension and spread of contamination during removal. This product transformer, dry, powder-like tank residues to a spongy "brownie-like" consistency.			Fact 207 (Rocky Flats Site) is 60% by 20 ft. percolum size tank was stabilized for residual removal. (no supporting doc)	MSDS	http://instacote.com/cc-f-207.html		Shirley Stearns shirley.stearns@instacote.com 7743 847 - 5260 (PH) (866) 867 - 8220 (FAX) 1605 C. Lacey Road, Erie, MI 48133	Fixative	pH - 7.0-7.4	Water Glycerin Propyleuschander Dextrose Surfactant Latex Acrylic emulsion Fungi Stat	1.05	31 cps	100%		None Known	None Known						
CC PS 413	InstaCate Inc.	No	CC PS 413 is a two-part urethane consisting of a resin and a hardener that is pumped into contaminated piping systems.	1530.00 per 5 gallon kit	Designed for piping systems. Stabilized pipes and reduces the potential for spread of contamination during size reduction. CC PS 413 increases productivity and reduces risk during size reduction of pipes by preventing re-suspension of spread contamination.				MSDS	http://instacote.com/cc-ps-413.html		Shirley Stearns shirley.stearns@instacote.com 7743 847 - 5260 (PH) (866) 867 - 8220 (FAX) 1605 C. Lacey Road, Erie, MI 48133	Fixative	pH - NA	Hexisopropylene of HDI (28182-81-2) > 95% Hexamethylene - 1, 6-Diisocyanate (822 - 06-0) <2%	1.14		Negligible								
POLYURA WASTE PACKAGING (InstaCote NIPA)	InstaCote, Inc.		Easy to use with a spray on application. Signs contaminants in place while it meets DOT's regulations for safe transportation.		Allows faster packing and size reductions (through packaging) of large pieces of equipment reducing significantly costs and safety risks.	Used in the construction of low level radioactive water shipping packaging.		Used at Rocky Flats to cover large pieces of equipment for contaminant shipping over public highways. Equipment was initially coped with industrial strength Saran Wrap and later on sprayed with Polyurea Coating to 1/4" thickness. (See Rocky Flats PP)	MSDS	http://instacote.com/pdf/NIPA.pdf		Shirley Stearns shirley.stearns@instacote.com 7743 847 - 5260 (PH) (866) 867 - 8220 (FAX) 1605 C. Lacey Road, Erie, MI 48133		pH : NA	4,4' diphenylmethane Di-isocyanate (101-68-8) Mixed Isomers (26447-40-5)	1.14	2300 cP	0.2%		Water, alcohol, amines, acids, bases.	High Temperatures						
POLYMERIC BARRIER SYSTEM	Bartlett Nuclear, Inc.	No	Sprayable coating, may apply thin coats over smooth areas and heavy coats over porous surfaces. Takes eight to 24 hours to dry. **Coats contaminates in place.**	60 ft^2/gal (approx at 25 mils)approxi	Apply PBS to any surface to lock down loose contaminations and prevent leaching of contaminants after decontamination efforts. PBS is commonly used to lock down loose contaminations on floors, walls and other problematic radioactive equipment prior to shipment. May be used to control environmental contamination and soil erosion.	PBS is a non-toxic, water-based solution which forms an impermeable barrier that encapsulates loose contaminated materials and the environment.	Has been used to "cocoon " large items that have been left outside or shipped. Was used at DRNL on a 20 ft. long Cyclotron Magnet that had and contaminated flaking paint prior to demolition.	Fact Sheet, MSDS	http://www.bartlettnuclear.com/product-services/decontamination-services-coatings-polymeric-barrier-system.htm		Nick DiMascio President nick.dimascio@bartlettnc.com (508) 291-0386 x 1267 Bartlett Nuclear, Inc. 60 Industrial Park Road Plymouth, MA 02360		pH - 6.5-7.5	Acrylic Based Polymer 62% Butyl acrylate (141-32-2) 0.1% Methyl methacrylate (80-62-6) 0.1% Styrene (100-42-5) 0.1% Ammonia (7664-41-7) 0.08% Water (7732-18-5) 38% Titanium dioxide (13463-67-7) 2% Polyhexylic acid (9003-01-4) 0.15% Triethylamine (121-44-8) 0.1% Propylene glycol n-butyl ether (55515-46-8) 0.1%	1.0 - 1.2		Soluble in liquied form.		Avoid addition of chemicals, avoid acids or mu Reaident metal salts, may cause coagulation.	Can coagulate if freezes/Avoid Temperatures Below 32 F						
Strippant TLC Free	Bartlett Nuclear, Inc.	Yes	Can be sprayed, or applied with roller or brush. Takes 6 to 12 hrs to dry. Several light coats are recommended. While curing, Strippant TLC Free will chemically entrap contamination. This product is approved for disposal at low-level radioactive waste facilities or by incineration.	60 ft^2/gal (approx) at 25 mils	Recommended for the decontamination of floors, walls and equipment. Strippant's chemical composition also makes it ideal for system decontamination of contaminated water based hot cells. Strippant can also serve as a barrier to prevent contamination or as a covering to contain contamination, preventing areas and equipment from becoming contaminated during maintenance activities	Non-hazardous, non-toxic, water based solution, designed to safely remove and prevent the spread of contamination.		Used in Oak Ridge National Lab (ORNL) Fall 2011		http://www.bartlettnuclear.com/product-services/decontamination-services-coatings-strippant-tlc.htm		Nick DiMascio President nick.dimascio@bartlettnc.com (508) 291-0386 x 1267 Bartlett Nuclear, Inc. 60 Industrial Park Road Plymouth, MA 02360	Strippable	pH - 9.5	Ammonia (9003-05-4) Water (7732-18-5) Poly (Vinyl Acetate) (9003-64-0) Poly (Isobutylene) (9003-20-4) Propylene Yellow A-52 Liquid (6358-41-2) Poly (Propylene) (104389-32-2) Propyl Paraben (94-13-3)	0.95	2100-3700 cps	Forms dispersion in water		Strong Acids	None Known	Health : 1 Flammability : 0 Reactivity : 1	20 mils	8.0 -7.9 lbs/gal		
DECON GEL 1101	CBI Polymers	Yes	Temporary strippable coating. Can be applied by paint brush, trowel, etc. Can be easily applied to surfaces on a horizontal, vertical or inverted plane. Compatible with most surfaces. 2 to 4 coats need to be applied depending on the porosity of the surface. Spraying techniques require more than one coat. Application include hot cells, glove boxes, radioactive spills, D&D of buildings, general maintenance and beryllium removal.	25 to 100 ft^2/gal	1101 is a brush-on gel for heavy nuclear and toxic industrial chemical and material decontamination.	When dry, the product locks the contaminants into a polymer matrix. Allows nearly 100% decontamination. Avoids spending of contamination into product is good to work with on any surface.		Decon Gel has been used by the DOE for several projects. Among the previous jobs performed with Decon Gel is the uranium and plutonium decontamination of hot cells at the ORNL; clean-up of contaminated equipment, tools ,	Fact Sheet	http://decon-gel.com/product-docs.html		Larry Stack President, Government and Defense, CBI Polymers, Inc. 1946 Young Street, Hiwaii 96826 (808) 949 2215 x 140 (808) 225 -7986 (cell) lstack@cbipolymers.com	Strippable	pH - 6.0 - 7.0				10,000-20000 cps						8.35-8.65 lbs/gal	
DECON GEL 1102	CBI Polymers	Yes		25 to 100 ft^2/gal	1102 is a brush-on gel optimized for oil and grease decontamination (crude oils, diesel, PCB's, etc.) DecDecon Gel 1102 is a brush or trowel on application				Fact Sheet	http://decon-gel.com/product-docs.html		Larry Stack President, Government and Defense, CBI Polymers, Inc. 1946 Young Street, Hiwaii 96826 (808) 949 2215 x 140 (808) 225 -7986 (cell) lstack@cbipolymers.com	Strippable	pH - 6.0 - 7.0				20,000- 20,000 cps						8.35-8.65 lbs/gal	
DECON GEL 1108	CBI Polymers	Yes		25 to 100 ft^2/gal	1108 is a brush-on gel for extremely heavy nuclear and toxic industrial chemical and material decontamination.				Fact Sheet	http://decon-gel.com/product-docs.html		Larry Stack President, Government and Defense, CBI Polymers, Inc. 1946 Young Street, Hiwaii 96826 (808) 949 2215 x 140 (808) 225 -7986 (cell) lstack@cbipolymers.com	Strippable	pH - 6.0 - 7.0				18,000 cps						8.35-8.65 lbs/gal	
DECON GEL 1128 Spray	CBI Polymers	Yes		25 to 100 ft^2/gal	1128 is a spray-on version of 1108 formulated for extremely heavy duty industrial sprayers for horizontal and vertical hard porous and non-porous surfaces such as concrete, pavement, wood, glass, steel, stone, and other hard substrates, and is used for heavy nuclear and chemical decontamination.				Fact Sheet	http://decon-gel.com/product-docs.html		Larry Stack President, Government and Defense, CBI Polymers, Inc. 1946 Young Street, Hiwaii 96826 (808) 949 2215 x 140 (808) 225 -7986 (cell) lstack@cbipolymers.com	Strippable	pH - 6.0 - 7.0				6,500-9,500 cps						8.35-8.65 lbs/gal	
DECON GEL 1120 Spray	CBI Polymers	Yes		25 to 75 ft^2/gal	1120 is a spray-on version of 1101 formulated and approved for hand-held light duty sprayers and hard, smooth surfaces such as glass, steel, polished stone and other smooth hard substrates and is used for nuclear and chemical decontamination .			http://www.eurolab.com/tech/tech-sheet.htm#DECON-GEL	Fact Sheet	http://decon-gel.com/product-docs.html		Larry Stack President, Government and Defense, CBI Polymers, Inc. 1946 Young Street, Hiwaii 96826 (808) 949 2215 x 140 (808) 225 -7986 (cell) lstack@cbipolymers.com	Strippable	pH = 5.0 - 7.0				2,000 - 3000						8.35-8.65 lbs/gal	12 months
DECON GEL 1121 Spray	CBI Polymers	Yes		25 to 75 ft^2/gal	1121 is a spray-on version of 1101 formulated for heavy duty industrial sprayers for horizontal and vertical hard porous and non-porous surfaces such as concrete, pavement, wood, glass, steel, stone, and other hard substrates, and is used for heavy nuclear and chemical decontamination.				Fact Sheet	http://decon-gel.com/product-docs.html		Larry Stack President, Government and Defense, CBI Polymers, Inc. 1946 Young Street, Hiwaii 96826 (808) 949 2215 x 140 (808) 225 -7986 (cell) lstack@cbipolymers.com	Strippable	pH - 5.0 - 7.1				6000 - 7000						8.35-8.65 lbs/gal	12 months
RUST DOCTOR	The Rust Doctor	No	Can pe sprayed, rolled or brushed over rusty metal. For large areas a latex brush/ brush is recommended. Use as received. Second coat should be applied while the first coat is still tacky to touch (with in 10 minutes after 1st applications more or less).	$ 585.99 / 5 gallon pail - Aprox 400 sqft/gal	Eliminates rust and prime storage tanks for painting. Treat rusting metal prior to welding or demolitions. Repair rusting metals on roofs and building.	Used to fix contamination into place by converting the rust to magnetite. Making the metals surface safer for demolition.				http://www.therustdoctor.com/		The Rust Doctor info@therustdoctor.com 5565 Benson Way, Suite 6 Ashland, OR 97520 (1800) 660-6167													

ALARA 1146	William Power Corporation (distributed by Carboline)	Yes	Can be sprayed rolled, brushed, poured or squeegeed into surface. Seals contaminant and peels off. Characterized by its rapid application and removal. It reduces waste volumes, immobilizes surface contaminants, and is proven to reduce surface contamination.	Approx 26 ft^2 at 25 mils	Alara 1146 attracts and binds surface contaminants in bare or painted concrete, wood, carbon steel, stainless steel, and plastic. May be used for insulation. It is effective removing surface contaminants such as radionuclides, dirt, PCB's, asbestos particles and loose paint.	Rapid application and removal, reduced waste volumes, high decontamination/fixtcon.		Used at SRS 321-M Fuel Fabrication Facility (See report)	Fact Sheet, MSDS	http://www.carboline.com/no-bets-we-serve/power-industry/product-details.asp?product=Product%7C1&Discussion&product=1001		Carboline 2150 Schuetz Road St Louis, MO 63146 314 644 6617 (PH) 314 644 6617 (FAX)		pH: N/D	Water (7732-18-5) Propylal Butylal (27360-07-2) Ricinoleate (151-13-3) Hydrates Alumina (21645-51-2) Potassium Oleate (143-18-0)	1.07		N/D					Health: 0 Flammability: 1 Reactivity: 0			12 months		
DEGONNA SUPERGEL	Argonne National Laboratory (2012)	Aqueous/Scoppy	Three-step procedure. Remote spray washers apply a wetting agent and a super-absorbent gel into the contaminated surface. Allow some time for the super absorbent polymer gel to absorb/sequestrate the radioactivity out of the pores. Then cleanup by vacuuming.		The wetting agent causes the bound radioactivity to recuspend in the pores, the super gel absorbent polymer gel then sucktes the radioactivity out of the pores and it then becomes fixed in the engineered nanoparticles that sit in the gel.	Removes nearly 80 percent of radioactive isotope. Leaves structures intact.	Porous structures such as brick and concrete. Un-harmful to the surface thus very efficient if you seek to preserve the structure intact. Designed for Chemical Decontamination. May be used to clean up after a Detonation of a Radiation Dispersal Device or a dirty bomb.	Tests have been performed by Argonne Isotopes Lab with collaboration from the EPA (Environmental Protection Agency) and the Dept of Homeland Security (Security Research Center) to test the decontamination efficacy of the Argonne Supergel. Please see report.	Fact Sheet, Tech evaluation report	http://www.ovp.ion.gov/national_security/cyber_physical/pdf/degonna_gel.pdf		Michael Kamienski kamienski@ead.gov Argonne National Laboratory 630 252 - 7699	Removable	pH:	Sodium Carbonate (497 - 19-8)									Health: 0 Flammability: 0 Reactivity: 1				Gives Na2O Fumes when heated to decomposition.	NO
RAD-REUSE58	Idaho National Lab. Commercialized by EM, Environmental Alternatives, Inc.		Applied in two steps for major efficacy. Foam and chay extraction process. First apply the foam to contaminated surface and let the reagent process work for two hours. (about 50% decontamination is achieved), remove by vacuuming, then for further decontamination apply the clay (leave for 3 to 6 weeks)(clay may be a pilled with commercial sprayers. After 6 weeks 95% of radioactive isotopes are removed.		It minimizes cost, waste volume and worker exposure. It is effective for both loose surface and fixed subsurface contaminants. The technology can be deployed in varios geometrical surfaces including walls, ceilings, equipment, structural beams, internal piping and highly irregular surfaces.	nearly 80 % removal rate in two (may) not destructive		Rad Reuseee was tested aloncide other decontaminating agents. Please see 'Side-by-Side' report for results.	Fact Sheet	http://inhabitat.com/wp-content/uploads/radioactive-decontamination-robot.jpg?width=300&height=225&crop=1&quality=85&strip=1&sharpen=1&zoom=2&resize=300%2C225%2C1&ssl=1		Karen Wright Idaho National Labs 2525 Fremont Ave, Idaho Falls, ID 83401 866-495 7430															
Polyshield SS-100 (Spray Polyurea Elastomeric)	Specialty Products Inc.	No	Spray application, only one application necessary. 7 aggregate thickness is achieved. The polyshield SS100 is not affected by moisture. Eco-friendly.	Approx. 100 sqft/ gal at 16 mils	Recommended for coating of steel tanks, sites and pipes. Encapsulation for asbestos, lead paint, or other dry hazzardous materials.	Unaffected by moisture. Eco-friendly, 100% solids with no solvents or VOCs.		Polyshield SS 100 was used in Petro-Chemical tank farms in a river pioneer one job profile.	Fact Sheet, MSDS	http://www.specialty-products.net/products-services/products/polyurea-elastomer-coatings/polyshield-ss-100/		Jeff Wehner Southeast Region Account Manager Specialty Products Inc. 1010 104th Street Court South Suite D jeffw@specialty-products.com 813 655 0426 (Ofc) 253 983 7523 (DIRECT)	Fluative	A: pH : N/A B: pH: 10.5	A: 4,4' Diphenylmethane Diisocyanate (101-68-8) 42% Reaction product of polyol with (4,4' MDI) with Modified MDI (CAS Not listed): 18% Propylene Carbonate (108-32-7) 10% B: Polypropylpropylenediamine (9046-10-0) (65 to 89 %) undisclosed products (N/A)	N:	N: 100 cps B: 100 cps	A: Partially soluble in (ethanol) Slightly Soluble in methanol.		A: Will react with products containing active hydrogen's such as water,alcohol, amines, bases and acids. The higher the temperature the faster the reaction. (CO2- gas) B:		A: Avoid high temperatures/ Avoid Freezing.		A: Health 2 Flammability 1 Reactivity 1		0.55 lbs/gal	6 months	7	
Polyshield HF	Specialty Products Inc.	No	Spray application. It is recommended that spray is done in multi-directional (east-west/north-south) passes to ensure uniform thickness. 1 or 2 applications may be necessary although desired thickness may be achieved with only one application.	Approx. 100 sqft/gal at 16 mils	Coating for steel, or other substrate exposed to corrosive. Liner for concrete tanks, concrete floors, ponds, lagoons, reservoirs, dikes, irrigation ditches, levees etc. Bridge waterproofing. Encapsulation for asbestos, lead paint, or other dry hazardous material (Consult SPI)	Ultra High Strength, Abrasion Resistance Polyurea. Hardens in 2 minutes. Eco-Friendly, 100% solids with no solvents or VOCs.		Polyshield HF was used to create a waterproof barrier to mitigate rainwater reaching a leaking containment tank at the Hanford Nuclear site in Washington state. See job summary.	Fact Sheet,	http://www.specialty-products.net/products-services/products/polyurea-elastomer-coatings/polyshield-hf/		Jeff Wehner Southeast Region Account Manager Specialty Products Inc. 1010 104th Street Court South Suite D jeffw@specialty-products.com 813 655 0426 (Ofc) 253 983 7523 (DIRECT)	Fluative	A: pH : N/A B: pH: 10.5	A: Isocyanates, reaction product of polyol with methylenediphenyl diisocyanate (157905-72-1) : 30-60% Methylenediphenyl diisocyanate (mixed isomers) (26447-40-5) (30-60%) Carbonate (108-32-7) 5-15% B: Polypropylpolyethylenediamine (9046-10-0) : 61-89% Undisclosed products (N/A)	N:	N: 100 cps B: 100 cps	A: Partially soluble in (ethanol) Slightly Soluble in methanol.		A: Water, alcohols, amines, bases and acids. (produces CO2 - gas). B:		A: Avoid high temperatures/ Avoid Freezing.		A: Health 2 Flammability 1 Reactivity 1		Final product: 8.55 lbs/gal	6 months	
Polyurea Special Protective Coating (Sonneborn AR 615)	Sherwin Williams	No	Spray application. Vapor application product exhibits extraordinary toughness and elastomeric performance charactheristics. Recommended thickness is between 30 and 250 mils.	6 sqft/ gal at 30 mils to 53 sqft/gal at 250 mils	Designed for use in immersion or atmospheric exposures. This is a tough, flexible, impact resistant waterproof coating and lining system. Example of uses: Tank linings, cold storage areas, aquariums, geotextile linings, tunnels, pipeline coating and lining, fuel storage and containment, rolledge decks, offshore platforms, Nuclear Power Plants or fabrication shops among others.	Fast cure-short downtime. No VOC's. Impact tear and abrasion resistant. Chemical resistant.			MSDS	http://protective-chemical-williams.com/dertel-na/?k=Search&q=Sonneborn+AR615		Sherwin Williams 1-800 - 474 - 3794	Fluative	A: pH : B: pH:	A: 4,4' Diphenylmethane Diisocyanate (101-68-8) Diphenylmethane Diisocyanate (26447-40-5) Diphenylmethane Diisocyanate Polymer (9016-87-9) B: Diethyltoluenediamine (68479-98-1) 19% Poly (oxypropylene)triamine (Propoxtan) 10% Titanium Polyoxypropylenetriamine 67% Dioxide (13463-67-7) 12%	A: 1.14 B: 1.11	Final product 100 cps	Not Available	A: 2%	A: Avoid water, alcohols, amines and other compounds that react with isocyanates.	B: None Known	A: Health 3 Flammability 1 Reactivity 1 B: Health 3 Flammability 1 Reactivity 0	30 mils to a max of 250 mils.	A: 9.44 lbs/gal B: 9.20 lbs/gal	12 months		
Armorkeel 600 SL N (Nuclear)	Sherwin Williams	No	Thin in a heavy duty coating usually apled with a roller, trowel or squeeze. ARMORSEALAGO SLN self leveling epoxy is a heavy duty concrete floor system that provides a high gloss, ceamless, durable surface in nuclear facilities subject to radiation, decontamination and loss of coolant accident.	50 sqft/gal to 53 sqft/gal at 30 and 30 mils respectively	Recommended for Nuclear power plants, DOE Nuclear Fuel facilities, fabrication shops, and DOE Nuclear Weapons Facilities.	Chemical resistant. Impact resistant. Abrasion resistant. Outstanding application properties.			MSDS	http://protective-chemical-williams.com/dertel-na/?k=Search&q=Armorkeel+600SL		Sherwin Williams 1-800 - 474 - 3794	Fluative	A, B: C:	A: Trimethylolpropane Tricrylate (15625-9-5) 4% Epoxy Polymer (25068-38-6) 64% Titanium B: Dioxide (13463-67-7) 22% Phenylmethanol (100-51-6) 60% Isophorone Diamine (2855-13-2) 37% Polyamine (Propoxtan) 23% C: Quartz (14808-60-7) 100%	A: 1.35 B: 1.01 C: 2.65		A: Not available C: N.A.	A: 1% B: 59% C: 0%	A: None Known B: None Known C: none known	A: None Known B: None Known C: Avoid excessive generation of airborne dust.	A: Health: 2 Flammability 1 Reactivity 2 B: Health: 3 Flammability 1 Reactivity 0 C: Health: 1 Flammability 0 Reactivity 0	30 mils to a max of 30 mils	A: 11.21 lb/gal B: 8.4 lb/gal C: 22 lb/gal	18 months		
MACROPOXY 646 N (Nuclear)	Sherwin Williams	No	May be sprayed, brushed or roller applied. MACROPOXY 646 N is a fast drying, polyamide epoxy designed to protect steel and concrete. It is self-priming and is for use as an intermediate and topcoat in multiple systems.	146 sqft/gal to 576 sqft/gal at 30 and 2 mils respectively	Recommended for power plants, tank exterior, water treatment plants, chemical plants, fabrication shops among others.				MSDS	http://protective-chemical-williams.com/dertel-na/?k=Search&q=Macropoxy+646+N+Nuclear		Sherwin Williams 1-800 - 474 - 3794	Fluative	A: B (Hardener):	A: Ethylbenzene (100-41-4) 3% Xylene (1330-20-7) 15% Polyamide (68410-23-1) 10% Talc (14807-96-6) 9% Titanium Dioxide (1346347-7) 34% B: Ethylbenzene (100-41-4) 0.1% Xylene (1330-20-7) 2% Methyl Isobutyl Ketone (108-10-1) 10% Epoxy Polymer (25036-25-3) 14% Epoxy Polymer (25068-38-6) 14% Quartz (14808-60-7) 58%	A: 1.48 B: 1.62		A: Not available B:	A: 29% B: 10%	A: B:	A: None Known B: None Known	C: Health: 3 Flammability 3 Reactivity 0 B: Health: 2 Flammability 3 Reactivity 0	2.0 mils to a max of 30.0 mils (dry)	A: 12.32 lb/gal B: 13.66 lb/gal	36 months		
Dura Seal 400 Epoxy Floor Coating 1 or 2 Gallon Kit	The Nelson Paint Company	No	Applied by roller, brush, or spray, it leaves an easy-to-clean, hard, glossy floor surface, suitable for accidental food contact.	$119.49 (1 gal kit) $125 to $150 sqft/gal at 10 mil.	Effective in humid areas. Can make repairs in areas that may have spills or water flows. It is a wet surface coatlnt and would harden even in water.	Dura Seal 400 penetrates into the pores of the concrete for excellent adhesion and "lies on top" to form a solid surface plate, recognized by the USDA as a contaminant barrier.				http://www.nelsonpaint.com/03100-2.html																	
Soil Sement	Midwest Industrial Supply Inc.	No	Spray onto surface to seal contamination in place. Applies to hard surface. May be applied with a fine hose.		Recommended for Soil Stabilization. Environmentally safe, non - toxic, non corrosive, non flamable and does not pollute ground water penentrate water from seeping and destabilizing the surface.	Does not wash of easily with water. Foals operating mechanisms.			Fact Sheet, MSDS	http://www.midwestindustrialproducts.com/en-US/soil-control-products/soil-cement-stabilizer.html			Soil	3.0 to 9.5	Acrylic & Vinyl Acetate Polymer (Non-Hazardous) 5-50 % Water (7732-18-5) 95-50%	1.01 to 1.15		Soluble		N/A							
SUTIGARD CC	Sanchem Inc.	No	Sealer and Glue. Spray onto surfaces.		Dust Preventist	For use in Aluminum, zinc, zinc plated or galvanized steel.			MSDS	http://www.sanchem.com/products/sutigard_cure.html																		
QUICK DECON	Radiation Decontamination Solutions	No	Manually applicable solution, must be scrubbed or brushed for better results. Solution needs to be rinsed after application. Quick Decon is not a coagulant. Aqueous scrubbing may be necessary. Do not let the product dry. Rinse well with water and squeegy for better results.	Varies depending on purchasing amount. Contact Phillip Belcher (pbelcher@raddecon.com).	Quick Decon is effective on Radioactive Halogens such as Iodine and Fluorine; Transition Metals such as Cesium and cobalt; and Actinides such as uranium, plutonium, and americium.	Recommended for any type of movable surfaces.		See technology evaluation report from EPA	MSDS	http://www.raddecon.com/technology.html		Phillip Belcher Radiation Decontamination Solutions Operations Manager (813) 854 -5030 pbelcher@raddecon.com 101 Stevens Ave #9, Oldsmar, FL 34677 www.raddecon.com															
RADLOCK-800	Isotron Environmental Nanotechnology Distributed in UK by Lab Impex Systems	Yes	The three components should be mixed in a precise sequence. There they must be applied with an aides spray system (200-800 psi) within a short pot-life period. Should be evenly sprayed. Should be applied to a thickness of 30 mils wet. Since cured the initial coat additional coats may be added until the desired thickness is achieved.	80-90 ft^2/gal @ 30 mils (this will cover only one coat) more than one coat may be required.	Used in radioactivite contamination avoidance and secondary containment applications.		In use in Nuclear Power plants to mitigate and remove radio nuclide contamination inside a reactor cavity.		Datasheet	http://www.isotron.com/radlock-product/			Droppable		A: Polymeric Component B: Reactive agent that provides interpolymer crosslink C: Flexible polymer emulsion enables "crippable" feature.		A: 114 Krebs B: 114 Krebs C: 80 Krebs									A: N/A
ISOFIX (Dust Abatement Coating)	Isotron Environmental Nanotechnology	No			The Isofix system provides dust abatementproperties that is flacammmable safe for use in urban environments and effective dealing with areas with rapiuat, plants, concrete, roadways and buildings.	Fixative coatlnng designed to mitigate the effect of radionuclide release. Environmentally being and is designed for application using conventional firefighting foam systems.			Datasheet	http://www.isotron.com/isofix-product/		Isotron Corporation 14416 Northlake Way , Ste 101, Seattle, WA 98103 www.isotron.net			0.97															NO
ISOFIX (Contamination Fixative System)						Fixative coatlnng designed to mitigate the effect of radionuclide release. Environmentally being and is designed for application using conventional firefighting foam systems.																						
RADBLOCK	Isotron	Yes	Radblock is applied using a variety of spray equipment to facilitate very large scale applications. Removed by stripping.	Approx. 33 ft^2/gal @ 20-40 mils	Designed to extract ionic forms of contamination that may have penetrated into porous media and is useful for post-contamination cleanup.		Dirty bomb mitigation and remediation and for decontamination service throughout nuclear complex.															Avoid Freezing.				12 months @ 75F		
DRION	Isotron	Yes		Approx. 33 ft^2/gal @ 20-40 mils	DRION Can be applied after a contamination event to remove up to 80% of radioactive contamination. It has been tested and shown to be very effective towards Cs-137, Sr-90, and Co-60.		Dirty bomb mitigation and remediation and for decontamination service throughout nuclear complex.		Datasheet													Avoid Freezing.				12 months @ 75F		