

EPI coatings create a safety barrier between hazardous materials and the environment

EPI is committed to creating products to solve your protective coatings challenges

"An ounce of prevention is worth a pound of cure".

EPI's Silicone Modified Polymers (SMP™) provide a safety barrier between hazardous materials and the environment.

Used in conjunction with your primary and secondary containment systems, they can prevent releases and costly cleanups. EPI coatings decrease the health, safety and environmental risk posed by stored hazardous materials and waste.

EPI's SMP™ provide a corrosion resistant, waterproof, tough, flexible and impact resistant barrier between hazardous materials and the environment. They extend the life of containment systems by reducing both corrosion and structural deterioration of chemical storage tanks, berms, bunds, curbing, draining systems and retention ponds.

Properly applied*, they adhere to concrete, steel, wood, geotextiles and other surfaces to defend against chemical and environmental exposure. They are chemically resistant to most oils, solvents, acids and caustics. They protect the underlying substrate and are resistant to foot traffic, vehicular traffic, microbial attack, high humidity, condensation, immersion and cleaning solutions.

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Containment site before placement of EPI coating system. Photos courtesy of Weston Solutions, Inc.



This military base selected an EPI Coatings System to create a safety barrier between hazardous materials and the environment.



Containment site protected with EPI's system of Joint Sealant, Quick Set Epoxy and RAP 45 Aliphatic Polyurea decreases the environmental risks posed by stored hazardous materials.

**Before application, surface preparation is critical to remove all surface contaminants and to repair all leaks and cracks. Fill joints and cracks with EPI's Joint Seal and seal all surfaces with an EPI primer. EPI recommends that you use only certified applicators with a trained experienced crew. Please review all materials and plans for compliance with applicable regulations.*



Products and Classification	Extra Flex	LCP	RP	RSP	RSP AL	RAP	RAP 45	RAP 60	Quick Set
	Aromatic Polyurea					Aliphatic Polyurea			Aromatic Epoxy
Chemicals									
Acetic Acid (100%)	C	C	C	RC	RC	C	C	C	R
Acetone	C	C	C	RC	RC	C	C	C	R
Ammonium Hydroxide (50%)	RC	RC	RC	R	R	RC	RC	RC	R
Benzene	C	C	C	RC	RC	C	C	C	Contact EPI
Brine-Saturated (310 g/l)	R	R	R	R	R	R	R	R	R
Chlorinated Water	R	R	R	R	R	R	R	R	Contact EPI
Clorox® (10%) Water	R	R	R	R	R	R	R	R	Contact EPI
Diesel Fuel	RC	RC	RC	RC	RC	RC	RC	RC	Contact EPI
Gasoline	RC	RC	RC	RC	RC	RC	RC	RC	R
Gasoline/5% MTBE	RC	RC	RC	RC	RC	RC	RC	RC	R
Gasoline/5% Methanol	RC	RC	RC	RC	RC	RC	RC	RC	Contact EPI
Hydrochloric Acid (37%)	R	R	R	R	R	R	R	R	R
Hydrofluoric Acid (10%)	NR	NR	NR	R	R	NR	NR	NR	R
Hydraulic Fluid (oil)	RC	RC	RC	RC	RC	RC	RC	RC	R
Isopropyl Alcohol	R	R	R	R	R	R	R	R	R
Lactic Acid	RC	RC	RC	RC	RC	RC	RC	RC	Contact EPI
MEK	RC	RC	RC	RC	RC	RC	RC	RC	R
Methanol	R	R	R	R	R	R	R	R	R
Methylene Chloride	C	C	C	C	C	C	C	C	Contact EPI
Mineral Spirits	RC	RC	RC	RC	RC	RC	RC	RC	Contact EPI
Motor Oil	R	R	R	R	R	R	R	R	R
MTBE	C	C	C	C	C	C	C	C	Contact EPI
Muriatic Acid (10%)	R	R	R	R	R	R	R	R	R
Sodium Chloride (10%)	R	R	R	R	R	R	R	R	R
Nitric Acid (20%)	NR	NR	NR	R	R	NR	NR	NR	RC
Phosphoric Acid (10%)	R	R	R	R	R	R	R	R	R
Phosphoric Acid (50%)	NR	NR	NR	R	R	NR	NR	NR	R
Potassium Hydroxide (10%)	R	R	R	R	R	R	R	R	R
Potassium Hydroxide (20%)	R, Dis	R, Dis	R, Dis	R, Dis	R, Dis	R, Dis	R, Dis	R, Dis	R, Dis
Propylene Carbonate	RC	RC	RC	RC	RC	RC	RC	RC	Contact EPI
Skydrol ®	C	C	C	C	C	C	C	C	R
Sodium Hydroxide, pH 12	R	R	R	R	R	R	R	R	R
Sodium Hydroxide (50%)	R, Dis	R, Dis	R, Dis	R	R	R, Dis	R, Dis	R, Dis	R, Dis
Sodium Hypochlorite (10%)	R	R	R	R	R	R	R	R	R
Sodium Bicarbonate	R	R	R	R	R	R	R	R	R
Stearic Acid	R	R	R	R	R	R	R	R	R
Sugar/Water	R	R	R	R	R	R	R	R	R
Sulfuric Acid (10%)	R	R	R	R	R	R	R	R	R
Sulfuric Acid (>50%)	RC	RC	RC	R	R	RC	RC	RC	R
Toluene	R	R	R	R	R	R	R	R	Contact EPI
1,1,1-Trichloroethane	C	C	C	C	R	C	C	C	Contact EPI
Trisodium Phosphate	R	R	R	R	R	R	R	R	R
Vinegar/Water (5%)	R	R	R	R	R	R	R	R	R
Water	R	R	R	R	R	R	R	R	R
Water; (14 days @82C)	RC	RC	RC	R	R	RC	RC	RC	Contact EPI
Xylene	RC	RC	RC	RC	RC	RC	RC	RC	RC

Guide Key

R	Recommended, little or no visible damage
RC	Recommended Conditional, some effect, swelling, discoloration
C	Conditional, Crackling-wash down within 1 hour of spillage to avoid effects
NR	Not Recommended
DIS	Discoloration

** This guide is for general information only. Please contact an EPI representative to select the optimum product for your needs and budget.*



Surface preparation is critical to remove all contaminants and to repair all leaks and cracks.



EPI Joint Sealant repairs cracks, protects expansion and control joints from spalling, chipping and breakdown.



EPI's Quick Set Epoxy primer is chemically resistant to most oils, solvents, caustics and acids.



Grit is applied to EPI Quick Set Epoxy to provide a textured, skid-resistant surface.

With a performance temperature range of “- 60 degrees to 250 degrees F, they work in challenging environments. Their low odor and easy cleaning make them worker friendly. Most are environmentally friendly with 100 % solids (or water based) and no VOCs. Most conform to USDA and FDA guidelines for incidental contact during the storage and transport of food.

Industrial civilization depends on chemicals to support its standard of living. Along with the benefits comes the responsibility to protect people, animals, earth, air and water from accidental chemical spills. We rely on various federal, state and local agencies to provide a framework of regulations to contain hazardous materials and wastes.

EPI's SMP™ can be applied with a plural component spray system, a brush, trowel, squeegee, or roller. Depending on the usage or potential exposure, you can build from less than 10 mils to greater than 250 mils in a single application.



EPI RAP 45 topcoat provides an attractive finish with excellent color stability.

The chemicals and wastes themselves may be aggressive and promote corrosion from the inside out. Expanding soils, temperature variations, fluctuating rain & groundwater and seismic vibration, all contribute to the structural deterioration of primary and secondary containment systems. Leaks may be due to failure, overfilling or improper draining of the primary storage container.

These coatings work year round because most can be applied at temperatures from 20 degrees F to 150 degrees F. Some systems set within seconds, are tack free within minutes and can handle foot traffic in an hour or two.





Engineered Polymers

International, LLC

Secondary Containment Product Selection Guide

This guide is for general information only. Please contact an EPI representative to select the optimum product for your needs and budget.

Products and Classification	Extra Flex	LCP	Aromatic Polyurea				RSP AL	RAP	RAP 45	RAP 60	Quick Set	IKSP
			RP	RSP	RSP AL	RAP						
Properties Regulatory												
VOC Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
USDA/FDA Incidental Contact	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	
Physical Properties												
Silicone Modified	Optional	Optional	Yes	Yes	Yes	Yes	Optional	Optional	Optional	Yes	Yes	
Component Ratio A/B	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1	3 to 4 (2 to 3 white)	1 to 2	1 to 2			
UV/Color Stability	Fair	Fair	Fair	Fair	Good	Excellent	Excellent	Fair	Fair			
Hardness (Shore)	72 Shore A	90 Shore A	85 Shore A	85 Shore A	85 Shore A	40D	40D	40D	60D	70D	2H Pencil	
Elongation (%)	950	360	350	750	750	375	290	290	140	28	210	
Tensile Strength (PSI)	1325	2950	3610	2250	2250	3310	3610	3610	5110	8881	5980	
Tear Strength (PLI)	460	420	550	410	410	375	480	480	500	Contact EPI	Contact EPI	
Viscosity (75 F, CPS)	A800/B600	A450/B650	A450/B500	A800/B600	A800/B600	A450/B600	A750/B575	A300/B575	A100/B1500	100%	300	
Solids by Volume	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	37%	
Colors	Custom	Custom	Custom	Custom	Custom	Custom	Custom	Custom	Custom	Custom	Clear	
Application												
Roller/Trowel/Squeegee	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	
Airless Spray (non heated)	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	
Airless Spray (heated)	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	
Application Temperature F	40-120	20-150	20-150	20-150	20-150	20-150	20-120	20-120	20-120	40-120	40-120	
Self-Leveling	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	
Thickeners	No	No	No	No	No	No	Fumed Silica	Fumed Silica	Fumed Silica	Gel Cel	Gel Cel	
Pot Life	None	None	None	None	None	None	30 Min	30 Min	30 Min	30 Min	24 Hr	
Fast Gel Time	13 Sec	9 Sec	9 Sec	9 Sec	9 Sec	15 Sec	40 Min	40 Min	30 Min	20 Min	5 Min	
Fast Tack Free Time	16 Sec	16 Sec	16 Sec	16 Sec	16 Sec	25 Sec	30 Min	30 Min	2-5 Hr	2-5 Hr	15 Min	
Fast Open to Foot Traffic	5 Min	5 Min	5 Min	5 Min	5 Min	10 Min	1 Hr	1 Hr	2 Hr	6 Hr	1 Hr	
Fast Open to Industrial Traffic	1 Hr	1 Hr	1 Hr	1 Hr	1 Hr	1 Hr	24 Hr	24 Hr	24 Hr	24 Hr	24 Hr	
Recoat Window*												
Primers												
Primer-Concrete	IKSP	IKSP	IKSP, P28, QS	IKSP	IKSP	QS, P28	QS, P28	QS, P28	QS, P28	No	IKSP	
Primer-Steel	P202, QS	P202, QS	P28, P202, QS	P202, QS	P202, QS	P202	MAP-Z, P28, QS	MAP-Z, P28, QS	MAP-Z, P28, QS	No	P202	
Primer-Wood	IKP, QS	IKP, QS	IKP, QS	IKP, QS	IKP, QS	IKSP, QS	IKSP, QS	IKSP, QS	IKSP, QS	No	IKSP	
TOPCOAT	RAP	RAP	RAP	RAP	RAP	RAP	RAP 45	RAP 45	RAP 60	RAP 45	IKSP	

* Recoat window is variable based on conditions. Please consult your EPI representative for guidelines.

