

ENVIRO-BOND^Ô

CHEMICAL COMPATIBILITY TEST

Aromatic

Aliphatic

Acids:	<p>Tert-Butylacetic Acid B88403</p> <p>Butyric Acid B103500</p> <p>DL Lactic Solution 252476</p> <p>Propionic Acid P1386</p> <p>2-Ethylhexanoic Acid E29141</p> <p>Methanesulfonic Acid 471348</p>
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Chemical Name	Test	Results/Observation/Recommended Product
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<p>Tert-Butylacetic Acid 98% Clear thick liquid</p> <p>Product: B88403 Batch: 06920KS CAS: 1070-83-3</p>	<p>50 ml of acid 20 gr of EB 300c Tested: EB 300A EB 403</p>	<p>No off gassing or adverse reaction with polymer. No response in 5 minutes, added 20 ml of water absorbed in 5 minutes, with no free liquids. Rec EB 300c w/water, EB 403 as an absorbent</p>
<p>Butyric Acid 99% Clear thick liquid</p> <p>Product: B103500 Batch: 04209AO CAS: 107-92-6</p>	<p>50 ml of acid 20gr of EB 300c Tested: EB 300A EB 403</p>	<p>No off gassing or adverse reaction with polymer: no response with polymer in 5 min. No response with EB 300a, 5 ml of water added with immediate absorption, EB 403 immediate absorption with bonding 5 min 100% bonded. Rec EB 300C w/water, or EB 403 absorbent & solidifier. Both or e/o</p>
<p>Lactic Acid 85%+ Water 15%</p> <p>Product: 252476 Batch: 06135CO CAS: 79-33-4 w/water 7732-18-5</p>	<p>50 ml of acid 20 gr of EB 300c Tested: EB 300A EB 403</p>	<p>No off gassing or adverse reaction with polymers. Started to absorb immediately, 5 min. Thick mass, immobilized in 10 min, with no free liquids. solid mass in 30 min. Rec EB 300C</p>

Chemical Name Test Results/Observation/Recommended Product

<p>Propionic Acid 99%</p> <p>Product: P1386 Batch: 041K3443 CAS: 79-09-4</p>	<p>50 ml of liquid 20 gr of EB300c</p> <p>Tested: EB 300A EB 403</p>	<p>No off gassing or adverse reaction with polymers. no immediate response, 5 min no response. Added 50 ml of water with immediate response, absorbed immediately with EB 403, and lightly bonded in 10 min. absorbed 100%. Rec: EB 300c w/water or EB 403 as an absorbent</p>
<p>2-Ethylhexanoic Acid 99%</p> <p>Product: E29141 Batch: 01909BI CAS: 149-57-5</p>	<p>50 ml of acid 20 gr of EB 300c</p> <p>Tested: EB 300A EB 403</p>	<p>No off gassing or adverse reaction with polymers: No response with polymer in 5 min. Test with EB 300a no response in 5 min. Added 5ml of water absorbed in 5 minutes. Thick mass in 15 min. an increase of water will speed up absorption rate. Rec. EB 300C w/water</p>
<p>Methanesulfonic Acid 70wt.</p> <p>Product: 471348 Batch: 20301HI CAS: 75-75-2</p>	<p>50 ml of acid 20gr of EB 300c</p> <p>Tested : EB 300A EB 403</p>	<p>No off gassing or adverse reaction with polymers, started to absorb immediately, 5 min totally absorbed, 10 min. fully immobilized, formed a solid mass in 30 min. Rec. EB 300C</p>

Aromatic

Aliphatic

Bases: Benzylamine 185701 2-Ethylpyridine 112429 1-Methylpyrrole M78801 4-Methylpiperidine M73206	N,N-Diethylethylenediamine 112720 3-(Diethylamino)Propylamine D89204 N,N-Diethylethanolamine 471321 2-Ethylhexylamine E29508
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Chemical Name Test Results/Observation/Recommended Product

<b style="color: green;">Benzylamine, 99% Product: 185701 Batch: 03730MI CAS: 100-46-9	50 ml of liquid 50 gr of EB 403 Other tests None	No off gassing or adverse reaction with polymers: No immediate results. 5 minutes absorbed and bonded to one mass in 30 min. Rec. EB 403
<b style="color: green;">2- Ethylpyridine Tan liquid, flammable Product: 112429 Batch: 035F0111 Cas: 100-71-0	50 ml of liquid 50 gr of EB 403 Other tests None	No off gassing or adverse reaction with polymers: Immediate results, 10 min. totally immobilized solid mass Rec EB 403
<b style="color: green;">1-methylpyrrole, 99% Dark Brown liquid, flammable Product: M78801 Batch: 07603AO CAS: 96-54-8	50 ml of liquid 50 gr of EB 403 Other test None	No off gassing or adverse reaction with polymers: Immediate response, bonded to one mass in 5 minutes. Rec. EB 403
<b style="color: green;">4 Methylpiperidine, 96% Liquid Product: M73206 Batch: 15723KO CAS: 626-58-4	50 ml of Liquid 50 gr of EB 403 Other test None	No off gassing or adverse reaction with polymers: immediate results, and a solid mass in 5 minutes. Rec: EB 403

Aromatic

Aliphatic

<p>Alcohol/Ethers/Esters:</p> <p>Phenethyl Alcohol P13622</p> <p>Propargyl Benzenesulfonate 32541</p>	<p>2-(2-aminoethylamino)-Ethanol 127582</p> <p>2-Butylaminoethanol 19550</p> <p>Ethylene Glycol Butyl Ether 484288</p> <p>Ethylene Glycol 102466</p> <p>Ethyl Heptanoate 112364</p> <p>2-Propanol 154970</p> <p>2-Ethylhexyl Acrylate 290815</p> <p>Tert-Butyl Methyl Ether 179787</p> <p>Ethanol Y551090</p> <p>1-Octanol X21979</p>
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Chemical Name Test Results/Observation/Recommended Product

<p>Phenethyl Alcohol 99 % Clear liquid</p> <p>Product: P13622 Batch: 01702HU CAS: 60-12-8</p>	<p>50 ml of liquid 20 gr of EB 300c</p>	<p>No off gassing or adverse reaction with polymer: No immediate results, After 20 min added 50 ml of water, w/ immediate immobilization. Rec. EB 300C w/water</p>
<p>Propargyl Benzenesulfonate, 96% Dark Brown liquid</p> <p>Product: 325341 Batch: 01717JZ CAS: 6165-75-9</p>	<p>50 ml of liquid 20 gr of EB 300c</p>	<p>No off gassing or adverse reaction with polymer: No immediate results. After 20 min added 50 ml water with immediate response and immobilization Rec. EB 300C w/water</p>
<p>2-(2-Aminoethylamino) Ethanol 99%</p> <p>Product: 127582 Batch: 15228MI CAS: 111-41-1</p>	<p>50 ml of liquid 20 gr of EB 300c</p>	<p>No off gassing or adverse reaction with polymer. No immediate results. After 5 min added 50 ml of water with immediate immobilization. Rec EB 300 C w/water</p>
<p>2-Butylaminoethanol</p> <p>Product 19550 Batch 330544/1 Cas- 111-75-1</p>	<p>50 ml of liquid 50 gr of EB403</p>	<p>No off gassing or adverse reaction with polymer: immobilization commenced immediately, and no liquids in 5 min.</p>

		Rec: EB 403
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Chemical Name Test Results/Observation/Recommended Product

<p>Ethylene Glycol Butyl Ether, 99% Clear liquid</p> <p>Product: 484288 Batch: 13723CO CAS: 111-76-2</p>	<p>50 ml of liquid 20 ml of EB 300c</p>	<p>No off gassing or adverse reaction with polymer: No immediate results, after 10 min added 20 ml of water with immediate response. Immediate immobilization. Rec. EB 300C w/ 20-40% water. Is not absorbed with EB 403</p>
<p>Ethylene Glycol, 99+% Clear thick liquid</p> <p>Product: 102466 Batch: 13723CO CAS: 107-21-1</p>	<p>50 ml of liquid 20 ml of EB 300c</p>	<p>No off gassing or adverse reaction with polymer: no immediate response. Mixed 50 ml of water with 5 min. immobilization. Rec. EB 300c w/water</p>
<p>Ethyl Heptanolate, 99%</p> <p>Product 112364 Batch 10825HO Cas- 106-30-9</p>	<p>50 ml of sample 50 gr of EB 403</p>	<p>No off gassing or adverse reaction with polymer: immediate response with a solid mass in 5 minutes. Crosslink bonding did occur, w/ immobilization Rec: EB 403</p>
<p>2-Propanol 99.5+% Clear thin liquid</p> <p>Product: 154970 Batch: 051K3485 Cas: 67-63-0</p>	<p>50 ml of liquid 20 gr of 300c</p>	<p>No off gassing or adverse reaction with polymer: no immediate absorption. 5 min. added 20ml of water, fully absorbed in 5 min. Rec: EB 300C and EB 403 as an absorbent</p>
<p>2-Ethylhexyl Acrylate 98% Clear liquid</p> <p>Product: 290815 Batch: 09511EO CAS: 103-11-7</p>	<p>50 ml of liquid 50 gr of EB 403</p>	<p>No off gassing or adverse reaction with polymer: immediate response, bonded to a solid mass in 5 minutes. Rec: EB 403</p>

Aromatic

Aliphatic

Aldehyd Ketones:		Cyclohexanone	C102180
1-Methyl-2-Pyrrolidinone	443778	Acetone	A4206
Phenylacetaldehyde	107395	2-Ethyl-1-Hexanol	E29168

Chemical Name	Test	Results/Observation/Recommended Product
<p>1-Methyl-2-Pyrrolidinone 99% Clear liquid</p> <p>Product: 443778 Batch: 17686EO CAS: 872-50-4</p>	<p>50 ml of liquid 20 ml of EB 300c</p>	<p>No off gassing or adverse reaction with polymer: no immediate response with EB 300C, A, or 403. Absorbed with EB 403 no cross-link bonding. EB 300A w/water will totally encapsulate mass. EB 300C w/water is effected by ion exchange Rec: EB 300A w/water Rec. EB 403 as an absorbent</p>
<p>Phenylacetaldehyde 90+% Liquid</p> <p>Product: 107395 Batch: 06414HO CAS: 122-78-1</p>	<p>50 ml of liquid 50 gr. of EB 403</p>	<p>No off gassing or adverse reaction with polymer: No immediate results. EB 403 did absorb all the liquid, and after 30 min did have the appearance of some cross-linking. Good absorbent. Rec: EB403 absorbent</p>
<p>Cyclohexanone 99.8% Clear liquid,</p> <p>Product: C102180 Batch: 1152880 CAS: 108-94-1</p>	<p>50 ml of liquid 50 gr. of EB 403</p>	<p>No off gassing or adverse reaction with polymer: Immediate response, bonded to a solid mass in 5 minutes. Rec. EB 403</p>
<p>Acetone 100% Clear liquid</p> <p>Product: A4206</p>	<p>50 ml of liquid 20 gr. of EB 300c</p>	<p>No off gassing or adverse reaction with polymer: no results in 30 min. Mixed 50 ml of water immediate immobilization.</p>

Batch: 110k3648 Cas: 67-64-1		Rec. EB 300c w/ water
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Chemical Name Test Results/Observation/Recommended Product

2-Ethyl-1-Hexanol 99+% Liquid Product: E29168 Batch: 11428BO CAS: 104-76-7	50 ml of liquid 20 gr. of EB 300c	No off gassing or adverse reaction with polymer: no immediate response in 5 min, mixed 50 ml of water with immediate immobilization. Rec: EB 300c w/water or EB 403 as an absorbent
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Aromatic

Aliphatic

Reactive: Phenylacetyl Chloride 4-Nitrobenzyl Chloride Methylstyrene	P16753 140112 522864	Chlorodimethylsilane Isopropylsulfonyl Chloride 2-Ethylhexanoyl Chloride Oxalyl Chloride Methylithium in Diethyl Ether**	144207 242705 157406 O5376 197343
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Chemical Name	Test	Results/Observation/Recommended Product
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<p style="margin: 0;">Phenylacetyl Chloride 98% Straw color/sweet odor</p> <p style="margin: 5px 0 0 0; font-size: small;">Product: P16753 Batch: 04202AO CAS: 103-80-0</p>	<p style="margin: 0;">50 ml of liquid 50 gr. of EB 403</p>	<p style="margin: 0;">No off gassing or adverse reaction with polymer: initial absorbed liquid, 5 min fully absorbed, cross-linking with polymer, 10 min. fully absorbed and immobilized. Formed a single mass. Rec. EB 403</p>
<p style="margin: 0;">4-Nitrobenzyl Chloride 99% Solid</p> <p style="margin: 5px 0 0 0; font-size: small;">Product: 140112 Batch 09826CQ CAS: 100-14-1</p>	<p style="margin: 0;">No Test</p>	<p style="margin: 0;">Solid at temp. contains Benzene, EB 403 is known to stabilize Benzene.</p> <p style="margin: 10px 0 0 0;">Test with EB 403 in liquid form.</p>
<p style="margin: 0;">Methylstyrene 99% Mixture of Isomers</p> <p style="margin: 5px 0 0 0; font-size: small;">Product: 522864 Batch: 05219JU CAS: 25013-15-4</p>	<p style="margin: 0;">50 ml of liquid 50 gr. of EB 403</p>	<p style="margin: 0;">No off gassing or adverse reaction with polymer, Immediate immobilization, 5 min. solid mass.</p> <p style="margin: 10px 0 0 0;">Rec: EB 403</p>
<p style="margin: 0;">Chlorodimethylsilane 98% - Liquid,</p>	<p style="margin: 0;">50 ml of liquid 50 gr. of EB 403</p>	<p style="margin: 0;">No off gassing or adverse reaction with polymer: immediate results, and a</p>

Product: 144207 Batch: 01313HO CAS: 1066-35-9		solid mass in 5 minutes. Rec: EB 403
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Chemical Name	Test	Results/Observation/Recommended Product
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<p>Isopropylsulfonyl Chloride 97% Smoke liquid, non water sol.</p> <p>Product: 242705 Batch: 04505KU CAS: 10147-37-2</p>	50 ml of liquid 50 gr. of EB 403	No off gassing or adverse reaction with polymer: excellent absorption no cross-link bonding in 1 hr. Rec EB 403 as absorbent
<p>2-Ethylhexanoyl Chloride 98% Clear</p> <p>Product: 157406 Batch: 20916AO CAS: 760-67-8</p>	50 ml of liquid 50 gr. of EB 403	No off gassing or adverse reaction with polymer, immediate immobilization, formed a solid mass. 5 min. completely bonded. Rec EB 403
<p>Oxalyl Chloride 98% Yellow liquid/solvent</p> <p>Product: O5376 Batch: 05212HO CAS: 79-37-8</p>	50 ml of liquid 50 gr. of EB 403	Adverse reaction: Some fumes in off gassing: immediate response, bonded to a solid mass in 5 min. Rec. EB 403
<p>Methylithium 1.6M sol. in Diethyl Ether</p> <p>Product: 197343 Batch: 03818EO CAS: NONE</p>	50 ml of liquid 50 gr. of EB 403	No off gassing or adverse reaction with polymer: Immediate immobilization. 5 minute solid mass. Rec. EB 403

Aromatic

Aliphatic

Aqueous Acid: 4-Hydroxybenzenesulfonic Acid 65% 171506	Hydrochloric Acid 37% 435570 Nitrilotris (Methylene) Triphosphonic 144797 Sodium Hypochlorite (Bleach) 239305
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Chemical Name Test Results/Observation/Recommended Product

4-Hydroxybenzenesulfonic Acid 65% Wt. 35% Solution in water Product: 171506 Batch: 12709DS CAS: 98-67-9/w-7732-18-5	50 ml of acid 20 gr. of EB 300c	No off gassing or adverse reaction with polymer: 5 min. started to absorb, 10 min thick mass, 15 min no free liquids, Rec EB 300C
Hydrochloric Acid Product: 435570 Batch: 051K3489 CAS: Not Known	50 ml of liquid 20 gr. of EB 300C	Adverse reaction: Slight off gases, w/a small amount of heat. Immediate immobilization. 5 min immobilized Rec. EB 300C
Nitrilotris (Methylene) Triphosphonic Acid 50 Wt. % Solution in water Product: 144797 Batch: 12307EU CAS: 6419-19-8	50 ml of acid 20 gr. of EB 300c	No off gassing or adverse reaction with polymer: immediate response, 5 min mostly absorbed, 10 min fully absorbed, 20 min thick mass, 12 hrs solid. Rec. EB 300C
Sodium Hypochlorite Light yellow liquid Product: 239305	50 ml of liquid 20 gr. of EB 300A	Adverse Reaction: Some off gassing with increase of volume by 50% foam. Added 50 ml of water totally absorbed with 15 gr. of

Batch: 09126AO CAS: 7681-52-9		EB 300C, in 5 min, a thick white mass with no off gassing. Rec. EB 300c w/50% water
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Aromatic

Aliphatic

Aqueous Base:	Sodium Hydroxide 50%	415413
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Chemical Name Test Results/Observation/Recommended Product

<p>Sodium Hydroxide 50% Solution in water Clear thick liquid</p> <p>Product: 415413 Batch: 01801HO CAS: 1310-73-2</p>	<p>50 ml of liquid 20 gr. of EB 300c</p> <p>Tested: EB 300A</p>	<p>Adverse Reaction: Small amount of off gassing, and a small heat generated No results. After 5 min added 50 ml of water no response, added 20ml of EB 300a w/immediate results. Total immobilization immediately.</p> <p>Rec. EB 300A</p>
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Aromatic

Aliphatic

Solvents - Hydrocarbons & Halogenated:			
Tetrahydrofuran	T5267	1-Octene	O4806
Dimethyl Sulfoxide	D8779	Pentane	158941
Cyclohexane	C8456	Propylene Carbonate	P52652
Bromobenzene	B57702	Chloroform	132950
Toluene	179965	Ether, Anhydrous	443549

Chemical Name	Test	Results/Observation/Recommended Product
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<p>TetrahydroFuran 99%+ (Buylated Toluene) Clear Liquid</p> <p>Product: T5267 Batch: 050K1485 CAS: 109-99-9</p>	<p>50 ml of liquid 50 gr. of EB 403</p>	<p>No off gassing or adverse reaction with polymer: immediate results 5 min a solid mass.</p> <p>Rec. EB 403</p>
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<p>Cyclohexane 99% Clear liquid</p> <p>Product: C8456 Batch: 00759HI CAS: 110-82-7</p>	<p>50 ml of liquid 50 gr. of EB 403</p>	<p>No off gassing or adverse reaction with polymer: Immediate immobilization, and solid mass in 5 min.</p> <p>Rec. EB 403</p>
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<p>Dimethyl Sulfoxide Solid</p> <p>Product: D8779 Batch: 031K3641 CAS: 67-68-5</p>	<p>No test</p>	<p>Solid, at temp. Because it is a solvent, and has flammability properties, and contains hydrocarbons. Rec: EB 403 for testing in liquid.</p>
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	<p>50 ml of liquid</p>	<p>No off gassing or adverse reaction with p: immediate response, bonded to a</p>
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<p>Bromobenzene 99% Clear liquid</p> <p>Product: B57702 Batch: 16303KI CAS: 108-86-1</p>	<p>50 gr. of EB 403</p>	<p>solid mass in 5 minutes. Rec: EB 403. Benzene if mixed with water will be immobilized with Rec: EB 300C</p>
<p>Toluene 99.9% Clear thin liquid,</p> <p>Product: 179965 Batch: 070K3706 Cas: 108-88-3</p>	<p>50 ml of liquid 50 gr. of EB 403</p>	<p>No off gassing or adverse reaction with polymer: immediate immobilization, 5 min stable mass, 20 min a single solid mass. Rec. EB 403, Toluene mixed with water will be immobilized with EB 300C</p>
<p>1-Octene 98% Clear Liquid,</p> <p>Product: O4806 Batch: 09906CO CAS: 111-66-0</p>	<p>50 ml of liquid 50 gr. of EB 403</p>	<p>No off gassing or adverse reaction with polymer: Immediate immobilization, 5 min a solid mass. Rec: EB 403</p>
<p>Pentane 98% Clear Liquid</p> <p>Product: 158941 Batch: 10326DO CAS: 109-66-0</p>	<p>50 ml of liquid 50gr of EB 403</p>	<p>No off gassing or adverse reaction with polymer: Immediate immobilization 5 min a solid mass. Rec. EB 403</p>
<p>Propylene Carbonate 99% Clear thin Liquid Water sensitive</p> <p>Product: P52652 Batch: 07145MI CAS: 108-32-7</p>	<p>50 ml of liquid 20 gr. of EB 300c</p>	<p>No off gassing or adverse reaction with polymer. No immediate response w/ EB 300C, A or 403, added 10 ml of water, immediately absorbed. w/EB 300A Rec. EB 300C, w/water or EB 300A</p>

<p>Chloroform Clear Liquid</p> <p>Product: 132950 Batch: 08821KI CAS: 67-66-3</p>	<p>50 ml of liquid 20 gr. of EB 300c</p> <p>50 ml of liquid 50 gr. of EB 403</p>	<p>No off gassing or adverse reaction with polymer: 5 min partially absorbed. 10 min absorbed, 15 min immobilized Tested with EB 403 w/ Immediate immobilization. 5 min a solid mass with cross-linking. Rec. EB 403</p>
<p>Either Anhydrous 99% Extremely Flammable Liquid Air Sensitive Reagent</p> <p>Product: 443549 Batch: 08236DO CAS: 60-29-7</p>	<p>Not Tested</p>	<p>Must be tested in a totally closed environment, due to the properties of the liquid. It is recommended that EB 403 be used for testing. The properties would indicate that immobilization would occur immediately with EB 403</p>