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Northeast Bridge Preservation Partnership Deck Treatment - Overlay (> 1")

PRODUCT NAME	PRODUCT SUPPLIER & WEB-SITE	PRIMARY BASE COMPONENT (MMA, EPOXY, etc.)	WEATHER RESTRICTIONS	DECK PREPARATION	SET-UP TIME	PATCH MAT'L COMPATABILITY	DECK AGE & CONDITION WHEN APPLIED	EXPECTED SERVICE LIFE	STATE DOT APPROVAL	ASTM/AASHTO (etc.) TEST PROCEDURES		
VESLMC	www.rapidset.com	RS Cement SB Latex	Normal Concrete	Scarified	3 hours to open	Not Gypsum	New or Repaired	25-30 years	most	Normal Concrete		
Very Early Strength Latex Modified Concrete												
PMCC - Polymer Modified Cement Concrete	www.rapidset.com	Low P Cement	Normal Concrete	Scarified	3 hours to open	Not Gypsum	New or Repaired	25-30 years	some	Normal Concrete		
PPC 1121				clean surface, shot blast is typical	2 hour traffic return	no known incompatibility	sound concrete, any age		CA, NV, ID, MT, WY, UT, AZ, CO, NM, MN,	· ·	3/4 in 12 in. in single lift	

September 17, 2012

Northeast Bridge Preservation Partnership <u>Deck Treatment - Sealers</u>

September 17, 201

Deck Headinghe - Sealers											
PRODUCT NAME	PRODUCT SUPPLIER & WEB-SITE	PRIMARY BASE COMPONENT (MMA, EPOXY, etc.)	WEATHER RESTRICTIONS	DECK PREPARATION	SET-UP TIME	PATCH MAT'L COMPATABILITY	DECK AGE & CONDITION WHEN APPLIED	EXPECTED SERVICE LIFE	STATE DOT APPROVAL	ASTM/AASHTO (etc.) TEST PROCEDURES	
KBP 204	Kwik Bond Polymers www.kwikbondpolymers. com			Clean surface, shot blast is typical	2 hour traffic return	No known incompatibility	Out of wet cure as a minimum. This is a crack filler and surface penetrant that will do the most good if shrinkage cracks have developed prior to application of the HMWM.	5 - 10 years	Meets special provision/specificatio n in many states (NY, OH, DE, CA, ID, MT, MN, NV, OK, WY, AZ). Approved list qualified in: MO, NE, NM.	Specific Gravity ASTM D1475 1.06, Viscocity ASTM D2196 <25 cps, Flash Point ASTM D3278 >180 F, Compressive Strength ASTM D695 >2000 psi (24 hr) >3000 psi (24 hr), Tensile Strength ASTM D638 >2000 psi (7 day). More available, I listed what I thought was most important.	
POLY-CARB MARK-127 (crack sealer)	www.poly-carb.com		50 degree F, <5% Deck Moisture	Shot Blast	3-4 hr @ 77 F	No Magnesium Phosphate	Any age, substrate must be sound	3-5+ years (surface); 7-10+ (cracks)	ОН		
POLY-CARB MARK-135 (crack sealer)	www.poly-carb.com		50 degree F, <5% Deck Moisture	Shot Blast	4-5 hr @ 77 F	No Magnesium Phosphate	Any age, substrate must be sound	3-5+ years (surface); 7-10+ (cracks)	OH, PA and NH (supplemental specs)		
Enviroseal 40	BASF Corporation www.buildingsystems.ba sf.com		40°-110° F; No rain or below 40° F for 12 hours after app.	Fully cured; clean; no coatings	Typical dry time is approx 4 hrs at 70° F/50% humidity. High humidity extends dry time.	Cementitious patch mat'l; fully cured; no coating/curing cmpd	Fully Cured; clean; sound; Dry is best, but slightly damp OK	Varies based upon exposure and substrate. 3 years or longer when properly applied	CT, FL, IL, IN, ME, MA, MI, NM, NY, OH, PA, RI, AD, TN, WV, WI	NCHRP 244 Series II-cube test; NCHRP 244 IV- Southern Climate; ASHTO T259 & T260. See Data Guide for more info.	
Hydrozo 100	BASF Corporation www.buildingsystems.ba sf.com		40° F or higher; No rain for 4 hours; OK down to 20° F if frost free	coatings	Typical dry time is approx 4 hrs at 70° F/50% humidity. High humidity extends dry time.	Cementitious patch mat'l; fully cured; no coating/curing cmpd	Fully Cured; clean; sound; Dry is best, but slightly damp OK	Varies based upon exposure and substrate. 5- 7 years typ when properly applied	IL, ME, NY, OR, PA, VT	NCHRP 244 Series II-cube test; NCHRP 244 IV- Southern Climate; See Data Guide for more info.	
Degadeck CSP	BASF Corporation www.buildingsystems.ba sf.com			Fully cured; Clean; shotblast, gritblast, or brush-blast		Cementitious patch mat'l fully cured; or MMA patch mat'l;	Fully Cured; clean; dry	Varies based upon exposure and movement in the substrate	CO, MD, MA, MN, NE, TN, VA	ASTM 638; See Data Guide for more info.	
Sealate T-70MX30	Transpo Industries, www.transpo.com	High Molecular Weight Methacrylate (HMWM)	50 deg F min	shot blast reccomended	5 hours min	compatable with most all patching materials	any age deck but should be in sound condition with no delaminations	excess of 10 years	ID, ME, MO, MT, NM, OR, TN, VA & WA	ASTM D2395, D1425, D1310, D93, D1644, D638, C3986, D695, D2369, C882, AASHTO T237	
Sealate T-70	Transpo Industries, www.transpo.com	High Molecular Weight Methacrylate (HMWM)	_	shot blast reccomended	5 hours min	compatable with most all patching materials	any age deck but should be in sound condition with do delaminations	excess of 10 years	AL, CA, FL, MO, NM, OH, RI & WA	ASTM D2395, D1425, D1310, D93, D1644, D638, C3986, D695, D2369, C882, AASHTO T237	
T-78	Transpo Industries, www.transpo.com	Methyl Methacrylate	40 deg F min	shot blast reccomended	30 to 60 minutes	compatable with most all patching materials	any age deck but should be in sound condition with no delaminations	excess of 10 years	MN & MO	ASTM D2849, D1310, D1644, D638 & D3986	

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Northeast Bridge Preservation Partnership Deck Treatment - Thin Overlay (>3/8" to 1")

PRIMARY BASE PRODUCT SUPPLIER & PRODUCT NAME COMPONENT (MMA, SET-UP TIME THICKNESS WEB-SITE EPOXY, etc.) PPC 1121 Kwik Bond Polymers. polyester resin mixed clean surface, shot 2 hour traffic no known incompatibility sound concrete, any age 30+ years Placed by special Meets requirements of 3/4 in to 12 in in Product data sheet: with aggregates, HMWM blast is typical provision/specification in: AASTHO T34 Guide single lift http://www.kwikbondpo primer AK, WA, OR, CA, NV, ID, MT, Specification for Polymer lymers.com/product/spe WY, UT, AZ, CO, NM, MN, Bridge Deck Overlays, Precsheets/KBP_PDS_PPC11 MO, FL, PA, DE, NJ, NY, VT. Mixed Chapter, Polyester 21EC.pdf binder section. Resin: viscosity <200 cps, tensile strength ASTM D638 >2500 psi, tensile elongation ASTM D638 35% min. Complete system (mixed with aggregates): tensile strength ASTM C307 800 psi, compressive strength ASTM C39 7000 psi, adhesion saturated surface dry >500 psi. Poly-Carb Markwww.poly-carb.com Epoxy Urethane 50 degree F, Shot Blast 2-4 hrs-No Magnesium Phosphate Any age, substrate must be sound 15+ years PA, NH, MA, MD, ME, VT, 163 FLEXOGRID < 5% Deck temperature NY, NJ, DE, RI and Moisture dependant/coat supplemental specs Poly-Carb Markwww.poly-carb.com Epoxy Urethane 30 degree F, Shot Blast 2-4 hrs-No Magnesium Phosphate Any age, substrate must be sound 10+ years supplemental specs 163 LT (low temp) < 5% Deck temperature Moisture dependent/coat 50 degree F, Poly-Carb Markwww.poly-carb.com Ероху Shot Blast 1-3 hrs-No Magnesium Phosphate Any age, substrate must be sound 8-10+ years PA, NY and supplemental 154 < 5% Deck temperature specs Moisture dependant/coat Poly-Carb Mark-40 degree F, Shot Blast 2-4 hrs-No Magnesium Phosphate 5+ years C836 www.poly-carb.com Polyurea Any age, substrate must be sound supplemental specs 155 UREGRID < 5% Deck temperature Moisture dependant (multi-

September 17, 2012

Northeast Bridge Preservation Partnership Deck Treatment - Ultra Thin Overlay (<3/8")

PRODUCT NAME	PRODUCT SUPPLIER & WEB-	PRIMARY BASE COMPONENT (MMA,	WEATHER	DECK PREPARATION	SET-UP TIME	PATCH MAT'L	DECK AGE & CONDITION	EXPECTED	STATE DOT	ASTM/AASHTO (etc.)	THICKNESS
	SITE	EPOXY, etc.)	RESTRICTIONS		SET OF TIME	COMPATABILITY	WHEN APPLIED	SERVICE LIFE	APPROVAL	TEST PROCEDURES	
SSI ReDeck	highway@ssicm.com	urethane-epoxy	60F-85F	shot blast day of	1st coarse deck	SSI Flexpatch	new concrete deck	10 years	NYSDOT		
1/4" -3/8	www.csbehler.com	1 to ratio		intallation	temp -80F -1.5 hr		28 days, old deck must be in decent shape				
					2nd coarse deck		be in deceme shape				
					temp -80F -3 hr						
PPC MLS	Kwik Bond Polymers. Product data sheet:	Polyester resin and broadcast aggregate (2	dry surface, 40 degrees F and	clean and dry, shot blast is typical	2 hours per layer from 40 to 90	No known incompatibility	Sound concrete, any age.	10 to 12 years. Longer with high	Approved in NV, placed in other states	Meets all requirements of AASHTO T34 Guide	3/4 inch nominal
1	http://www.kwikbondpolymers.		rising	biast is typical	degrees.			performance	under special	Specification for Polymer	
1	com/product/specsheets/KBP_P	primer. 3/8" nominal	_		_			aggregates. As	provision/specificatio		
1	DS_PPCmls.pdf	thickness.						with ALL multi	n.	Layer Chapter, Polyester Binder	
1								layer broom and seed style overlays		section. Resin: viscosity 500- 1000 cps, tensile strength	
1								the service life is a		ASTM D638 2500 psi, tensile	
1								function of		elongation ASTM D638 >40%.	
1								aggregate		Complete system (with	
1								abrasion resistance.		aggregates): compressive strength ASTM C579 >5000 psi,	
1								esistance.		adhesive strength ACI 503R	
1										>250 psi, permiability to	
1										chloride ion AASHTO T277	
1										<100 coulombs.	
Poly-Carb Mark-163 FLEXOGRID	www.poly-carb.com	Epoxy Urethane	50 degree F,	Shot Blast	2-4 hrs-temperature	No Magnesium Phosphate	Any age, substrate must		PA, NH, MA, MD, ME,		
			< 5% Deck Moisture		dependant/coat		be sound	15+ years	VT, NY, NJ, DE, RI and supplemental specs		
Poly-Carb Mark-163 LT (low temp)	www.poly-carb.com	Epoxy Urethane	30 degree F,	Shot Blast	2-4 hrs-temperature	No Magnesium Phosphate	Any age, substrate must	15+ years	supplemental specs		
			< 5% Deck		dependent/coat		be sound				
-1 - 1 - 1		-	Moisture	at . at .				10+ years			
Poly-Carb Mark-154	www.poly-carb.com	Epoxy	50 degree F, < 5% Deck	Shot Blast	1-3 hrs-temperature dependant/coat	No Magnesium Phosphate	Any age, substrate must be sound		PA, NY and supplemental specs		
			Moisture					8-10+ years			
Poly-Carb Mark-155 UREGRID	www.poly-carb.com	Polyurea	40 degree F,	Shot Blast	2-4 hrs-temperature	No Magnesium Phosphate	Any age, substrate must		supplemental specs		
1			< 5% Deck Moisture		dependant (multi- system)		be sound	5+ years		C836	
Poly-Carb SAFETYGRID (HFS- High	www.poly-carb.com	Ероху	50 degree F,	Air or Shot Blast	1-3 hrs-temperature	No Magnesium Phosphate	Any age, substrate must	5+ years	supplemental specs	C836	
Friction Surface)			< 5% Deck		dependant		be sound				
			Moisture					5+ years			
Traficguard EP35	BASF Corporation www.buildingsystems.basf.com	Epoxy	50-100° F; No rain within 12 hours	Mechanical prep to ICRI CSP 6	15-25 min pot life; Cure time depenent	Cementitious patch fully cured; epoxy patch with	Fully cured concrete; clean; dry; sound	Dependent upon service conditions	ID, LA, MO, NY, NC	ASTM C881, ASTM D695; ASTM D638; ASHTO T277; See Data	l
1	www.buildingsystems.basi.com		Within 12 hours	icki car o	upon Temp. See Data		crean, ary, sound	service conditions		Guide for more info.	
1					Guide.						
T-48 Slurry	Transpo Industries	Enovy	50 deg f minimum	Shot blact	2-9 hours	mag phosphate act	deck should be sound	10 - 20 years	IL, NM & TN	ASTM D2849, D1310, D1644,	
1-48 Siurry	Transpo Industries, www.transpo.com	Epoxy	30 deg i minimum	SHOT DIAST	2-9 Hours	mag phosphate not reccomended	with no delaminations	10 - 20 years	IL, NIVI OL IN	D695, D638, D2240, C109,	
										D790, C307, D638, C1583-04,	
										C531, C666, E274, AASHTO	
T-48 Chip seal	Transno Industries	Enovy	50 deg f minimum	Shot blact	2-9 hours	mag phosphate not	deck should be sound	10-20 years	SD	T237, ACI 503R ASTM D2849, D1310, D1644,	
1-40 citib seat	Transpo Industries, www.transpo.com	Epoxy	So deg i minimum	Silve Diase	2-3 nours	mag phosphate not reccomended	with no delaminations	10-20 years		D695, D638, D2240, C109,	l
										D790, C307, D638, C1583-04,	l
										C531, C666, E274, AASHTO	l
T-18	Transpo Industries,	Methyl Methacrylate	14 deg F minimum	Shot blast	1 hour	mag phosphate not	deck should be sound	10-20 years	NJ	T237, ACI 503R ASTM D2393, D2849, C881,	
	www.transpo.com		24 Jeg i illimituti	Silv. Diast		reccomended	with no delaminations	20 70013		D1310, D1644, D638, D695,	
										D790, C307, C531, C1583 &	
r need rac	The same of the sa		So des S	Chash bloom	4.2.5		deal about 4 to 1000 to	40.20		D570	
E-Bond 526	Transpo Industries, www.transpo.com	Epoxy	50 deg F minimum	SHOT DIAST	1-3 hours	mag phosphate not reccomended	deck should be sound with no delaminations	10-20 years	IL, KS, MO, OK, TN & WS	ASTM D2393, C881, D638, C1583-04, C882, C579, D695,	l
										D540, AASHTO T277	