

National Bridge Deck Preservation Working Group Update

SEBPP 3-30-16

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Each of the Four Regional Bridge Preservation Partnerships have several Working Groups – the following have become National Working Groups:

- Bridge Deck Preservation
- Bridge Coatings
- Performance Specifications
- Social Media

This is an update on the National Bridge Deck Working Group





Western Bridge **Preservation Partnership**



Bridge Deck Overlay

Product Matrix

2014

| PRODUCTNAME | PRODUCT SUPPLIER | PRIMARY BASE COMPONENT (MN EPOXY, etc.) | | DECK | N SET-UP TIM | | H MAT'L | DECK AGE & CONDITION WHE APPLIED | EN EXPECTED SERVICE LIFE | STATE DOT APPROVAL | ASTM/AASHTO(etc. TEST PROCEDURES | | |
|--|---|--|---|---|--|---|------------------------|--|-----------------------------------|--|---|---|---------------------------|
| VESLMC | www.mpidset.com | RS Cement SB Late | × Normal Concrete | Scarified | 3 hours to op | en Not G | iypsum N | New or Repaired | 25-30 years | most | Normal Concrete | | |
| Very Early Strength Latex Modified Concrete | | | | | | | | | | | | | |
| PMCC - Polymer Modified Cement Concrete | www.repidset.com | Low P Cement | Normal Concrete | Scarified | 3 hours to op | en Not G | äypsum N | New or Repaired | 25-30 years | some | Normal Concrete | | |
| | Kwik Bond Polymers. Produkt data shret http://www.kwikband olymers.com/sroduct perchetsit/kB_JDS_ PCaasaEC.pdf | with aggregates, p HMWM primer | id Dry | clean surface shot blast is typical | | | nown s patibility o | iound concrete, an | y : 30+ Years | Placed by special provision/specific shion in AC WA OR, CA, NY, ID, MT, WY, UT, AZ, CO, NM, MN, MO, FL, PA, DE, NJ, NY, VT. | Meets requirements of AASTHO Tay Guide Specification for Polyme Bridge Desk Overlays, Ph Mixed Chapter, Polyeste binder section. Resin viscosity 2000 cps, tensil strength ASTM D638-32 system (mixed with aggregates): tensile strength AS Orangeasistement for a System (mixed with aggregates): tensile strength Cap roop pis, addression stureted surface dry spectra | e r soo STM ie ngth TTM | |
| | PRODUCT NAME | PRODUCT SUPPLIER & WEB-SITE | PRIMARY BASE COMPONENT (MMA, EPOXY, ME) | WEATHER RESTRICTIONS | DECK PREPARATION | SET-UP TIME | PAT | CH MATYL C PATABLITY | DECK AGE & CONDITION V APPLIED | NHEN EXPECTED SERVICE LIFE | STATE DOT APPROVAL | ASTM/AASHTO (MC) TEST , PROCEDURES , | THICKNESS |
| | | Kovik Band Polymens, in Product data shines: Mttp://www.Kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://wwww.kovikbondg.oby Mttp://www.kovikbondg.oby Mttp://www.kovikbondg.ob | relyeater resin mixed with D egregates, HMMM primer | ry d | een surface, shot ia h letti is typical | our traffic return | n na kaswa in | compatibility sour | d sonorete, eny age | 30+ Assa | Pased by special provision/specific to in AC, to UT, AZ, CO, NAV, MN, MO, PL, PA, DE, NJ, NY, VT. | Meets requirements af AASTHD (july Typ Grief Selections for provide Selections for Provided Couples, Polyaster bandwide Couples, Polyaster bandwide settler, Rein vessery cos on kenter settler (Selection) min. Compare voters (Selection) min. Compare voters (Selection) empation ASTM (Selection) settler (Sel | in to sa in in in lift |
| | Pely-Carb Mark-s53 FLEXOGRO | www.poly-carb.com | Epony Urethane 5 | odegree F, < S 14 Deck Molature | terr | hos- perature endert/coat | No Magnesia | en Phasphate Any | ege, substrate must be sou | nd sge years | PA, NH, MA, MD, ME, VT, NY, NJ, DE, Ri and supplemental speca | | |
| | Poly-Carb Mark-s63 LT (low temp) | www.poly-carb.com | Epoxy Urethane 3 5 | odegree F, « S 14 Deck Moleture | terr | hrs- perature enders/coat | No Magnesiu | im Phosphate Any | age, substrate must be sou | nd so+ years | suppremental specs | | |
| | Poly-Carb Mark-154 | www.poly-carb.com | Epoxy S | o degree F, « S 14 Deck Molature | hot Blast s-3 | hrs-temperature endant/coat | e No Magnesiu | um Phosphate Any | age, substrate must be sou | nd Base years | PA, NY and supplemental speca | | |
| | Poly-Carb Markings UREGRD | www.poly-carb.co.m | Polyures 4 | o degree F, « S 14 Deck Moisture | ter dep | hrs- iperature endant (multi- tem) | No Magnesis | im Phosphate Any | age, substrate must be sou | nd Sx years | supplemental spece | C836 | |

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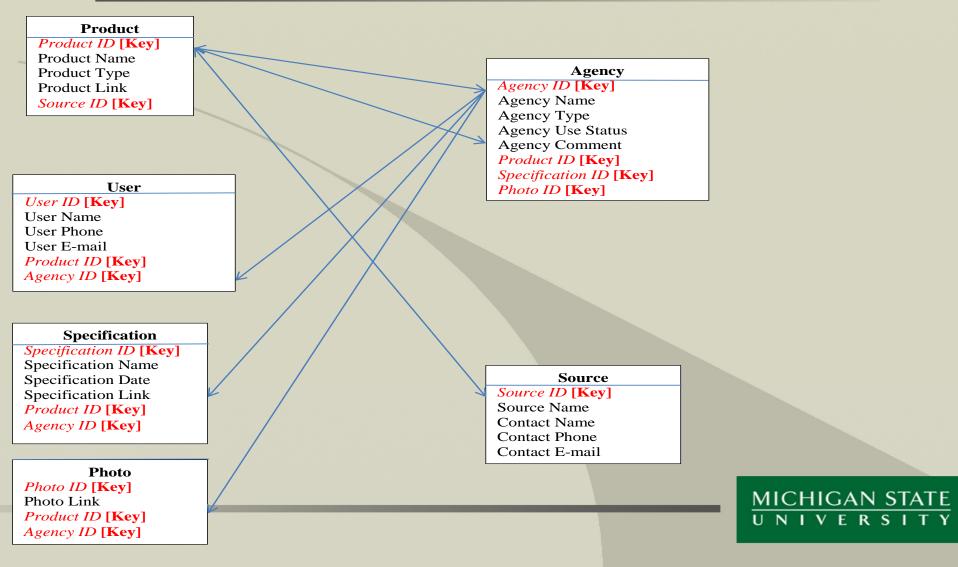
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National Bridge Deck Treatment Data-Base

- A nationwide framework and listing of available bridge deck preservation products and technologies and their respective technical attributes.
- Approved and Funded by the TSP-2 Oversight Panel.
- Would differ fundamentally from NTPEP & APEL in both content and purpose by having no evaluations of any products
- Currently in the design stage.
- Designed to apply to other Preservation areas. (Coatings. Etc.)

lational Center for Pavement Preservation

ncpp





<u>Report 1—Specify Product in Current Use—Agencies—Users</u>

Report 2—Specify Agency→**Products in Current Use**

<u>Report 3—Specify Source—Products in Current Use—Agencies—Users</u>

<u>Report 4</u>—Specify Product Type→Sources

<u>**Report 5—Specify Product in Current Use—Agencies—Specifications</u></u></u>**

<u>Report 6—Specify Product in Current Use—Agencies—Photos</u>





- Thanks to Mike Johnson, Drew Storey, Atiq Alvi, Chris Keegen, Jason DeRuyver and Andy Doyle and the respective deck working groups in each of the partnerships
- Thanks to Ed Welch for his advocacy with the TSP2 Oversight Panel
- Thanks to John O'Doherty the primary data base designer
- Questions