

NEW PRODUCTS EVALUATION COMMITTEE MEETING

February 13, 2025

Georgia Department of Transportation--Office of Materials and Testing
15 Kennedy Dr. Forest Park, GA 30297

NPE COMMITTEE

S. Jacob Walker	<i>Chair - OMAT</i>	Connie Coleman	<i>New Products Supervisor - OMAT</i>
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		Sydney Herrington	<i>New Products- OMAT</i>
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NPE COMMITTEE MEMBERS

Shahid Jenkins	<i>OMAT - Soil, Physical, & Chemical</i>	Tony Eadie – Design Engineer	<i>G.O. – Roadway Design</i>
(404) 608-4817	OMAT Room 306	(404) 631-1662	G.O. Roadway Design 27 th floor -Cubicle 2714
Steve Gaston – Assistant State Bridge Engineer	<i>G.O. - Bridge Design</i>	Paul Harvey	<i>Maintenance Liaison</i>
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David Miranda C (404) 803-9627	<i>TMC - Traffic Operations</i>	David Neighbors	<i>G.O. – Construction</i>
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Jose Hernandez-Ramirez – Design Engineer 3	<i>G.O. – Design Policy and Support</i>	Abdel Koundaba	<i>State Utilities Liaison</i>
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Eugene Utsalo	<i>Geotechnical Branch</i>	Rabindra Koirala –Bridge and Structural Design Engineer	<i>G.O. - Bridge Design & Maintenance</i>
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(404) 347-0707	Transportation Data		

Time	*NPE # / Product*	*Guest(s)*	*Meeting type* (In Person, Phone Conf.)	*Phone Number*
9:05	NPE# 2411-1 GCP Applied Technologies – “Eclipse 4500”	David Geary David.Geary@gcpat.com		(617) 981-1012
9:25	NPE# 2410-1 Master Dowel – “Master Dowel”	Brad Zaun brad@masterdowel.com Joe Keeran joe@masterdowel.com		(515) 777-2939 (515) 777-2940
9:45	NPE# 2409-2 Maxwell Products, Inc. – “Gap Mastic C”	Mitch Jones mitch@maxwellproducts.com		(801) 972-2090
10:05	Break			
10:15	NPE# 2412-1 Nukote Coating Systems International – “Nukote PP300”	Jacob Wildeson jwildeson@nukoteglobal.com		(704) 953-7613
10:35	NPE# 2501-1 Transportation Control Systems – “TCS-WWD-OR”	Cary Hudkins chudkins@tcstraffic.com		(813) 598-8424
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Presentations

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OLD BUSINESS

NPE# 2408-1 Green Mantra Technologies – “Ceranovus”

Product Description: Ceranovus is a low viscosity processing aid comprised of Polyethylene or Polypropylene.

Material Composition: It is composed of: Ceranovus A155 polypropylene additive and Ceranovus A115 polyethylene additive.

Recommended Use: Specialty additives made from upcycled plastics used in various asphalt applications, delivering a unique combination of viscosity and performance improvement. Their A115 Polypropylene and A155 Polyethylene act as viscosity modifiers and workability agents for and in combination with (1.) Ground Tire Rubber (“GTR”) used as an alternate to SBS Polymers in Hot Mix Asphalt, (2.) Bond Strength modifier for Hot Applied Tack Coats and (3.) adhesion promoter for Hot Applied Chip Seals.

Product meets GDOT Specification: Product falls outside of current GDOT specification.

Cost: \$2.50/lb

Committee Recommendation:

Important Dates:

Notes: Dr. Peter Wu – Technical Assistance Bureau, Jason Oglesby – Bituminous Branch

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NPE# 2408-2 Coatings International LLC – “Forever Bond 50-570-10FR”

Product Description: Forever Bond 50-570-10FR is a 100% polyurea spray elastomeric coating with outstanding physical properties with the ability to apply high film thickness and fast cure rates in 10 seconds. It has a Class I Fire Rating with great chemical resistance with high tensile strength and elongation. It has tremendous adhesion over concrete.

Material Composition: It is a two-component polyurea elastomer where the A side is a polymeric isocyanate and the B side is a composition of polyetheramines.

Recommended Use: It is recommended as a protective coating over concrete retaining walls and bridge embankments against water intrusion and providing crack resistance and leak protection to the environment.

Product meets GDOT Specification: Product falls outside of current GDOT specification.

Cost: at 60 mils thick \$1.95 sq. ft. coating cost

Committee Recommendation:

Important Dates:

Notes: David Neighbors – Construction Office, Shahid Jenkins – Physical and Chemical Branch

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NPE# 2405-1 CMC – “ASTM A1094 Galvabar”

Product Description: A1094 GalvaBar is Continuous Hot-dip Galvanized Rebar (CGR) that combines the corrosion protection of zinc and exceptional formability without peeling or flaking. Processed prior to fabrication, GalvaBar allows for seamless procurement of corrosion resistant rebar utilizing existing supply chains, ready for fabrication and delivery straight to the job site. Mechanistic performance in recent federally funded research shows that CGR is a more homogeneous and efficient use of zinc without iron and is equivalent to or better than a thicker zinc-iron alloy layered coating structure.

Material Composition ASTM A1094 is a pure Zinc metallurgical coating. Base material can be any metallic rebar such as A615, A706, etc.

Recommended Use: It is recommended as corrosion resistant reinforcing steel for bridges, marine structures, residential and commercial applications, mining projects as a better substitute to A767 HDG.

Product meets GDOT Specification: Product falls outside of current GDOT specification.

Cost: same cost or less than A767

Committee Recommendation:

Important Dates:

Notes: Ian Rish – Materials and Testing Office, Dr. Peter Wu – Technical Assistance Bureau, Jacob Walker – Testing Management Bureau

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NPE# 2408-4 NavTech Radar Ltd. – “NavTech Radar KTS350-X”

Product Description: NavTech Radar is a 360-degree rotating radar-based traffic sensor and software suite.

Material Composition KTS350-X is composed of a powder coated aluminum base and a rugged plastic dome.

Recommended Use: It monitors freeways providing incident detection (stopped vehicle, wrong way driver, pedestrian on the road) and count & classification traffic data.

Product meets GDOT Specification: Product falls outside of current GDOT specification.

Cost:

Committee Recommendation:

Important Dates:

Notes: Shronica Holland – Transportation Data Office, David Miranda – Traffic Operations Office

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NPE# 2409-4 GeoPier, a division of CMC – “GeoPier SRT System”

Product Description: GeoPier SRT System is a steel plate pile consisting of either an S3x5.7 section or a C 4x5.4 Steel section with two ¼ in variable length steel plates attached by welds.

Material Composition GoPier SRT System is composed of steel, S or C sections, and ¼ in thick steel plate

Recommended Use: The product is intended for slope stabilization and repair in soils with a slip plane up to 15-ft deep.

Product meets GDOT Specification: Product falls outside of current GDOT specification.

Cost:

Committee Recommendation:

Important Dates:

Notes: Eugene Utsalo – Geotechnical Branch

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NEW BUSINESS

NPE# 2411-1 GCP Applied Technologies – “Eclipse 4500” (9:05 am)

Product Description: Eclipse® 4500 may be used in any concrete but is most applicable for concrete located in freeze-thaw environments where the potential for cracking due to drying shrinkage is prevalent and undesirable.

Material Composition: It is 100% Glycol based.

Recommended Use: It is recommended for concrete located in freeze-thaw environments where the potential for cracking due to drying shrinkage is prevalent.

Product meets GDOT Specification: Product falls outside of current GDOT specification.

Cost: Depends on quantity needed.

Committee Recommendation:

Important Dates:

Notes: Dr. Peter Wu – Technical Assistance Bureau, Jason Waters – Concrete Branch

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NPE# 2410-1 Master Dowel – “Master Dowel GFRP Baskets” (9:25 am)

Product Description: Master Dowel GFRP Baskets are fiberglass reinforced polymer dowels and .306 steel dowel bar baskets.

Material Composition: It is composed of Boron-free E-Glass greater than 75% by weight, and vinyl-based resin.

Recommended Use: It is recommended for joint plain concrete pavement construction and Dowel retrofits.

Product meets GDOT Specification: Product falls outside of current GDOT specification.

Cost: 1.25” Basket - \$5.32 LF; 1.5” Basket - \$6.79 LF

Committee Recommendation:

Important Dates:

Notes: Dr. Peter Wu – Technical Assistance Bureau, Jason Waters – Concrete Branch, David Neighbors – Construction Office

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NPE# 2409-2 Maxwell Products, Inc. – “Gap Mastic C” (9:45 am)

Product Description: Gap Mastic is a hot-applied polymer modified asphalt mixed with engineered aggregates.

Material Composition: It is a polymer-modified asphalt mixed with engineered aggregates and modifiers.

Recommended Use: It is designed to fill wide cracks and defects to prevent water infiltration and restore ride quality. It is designed as a permanent repair solution for wide thermal cracks, fatigue cracking, rutting and depressed broken up areas.

Product meets GDOT Specification: Product falls outside of current GDOT specification.

Cost: It ranges from \$0.60 to \$0.90 per lb.

Committee Recommendation:

Important Dates:

Notes: Dr. Peter Wu – Technical Assistance Bureau, Jason Oglesby – Bituminous Branch

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NPE# 2412-1 Nukote Coating Systems International – “Nukote PP300” (10:15 am)

Product Description: High performance polyurea/polyurethane hybrid liner that is utilized in full structural rehabilitation of culverts and pipes.

Material Composition: It is a two component polyurea/polyurethane spray applied liner.

Recommended Use: It is recommended for liner installation for the structural rehabilitation of culverts and pipes.

Product meets GDOT Specification: Product falls outside of current GDOT specification.

Cost: \$25-\$27/gallon (volume tiered pricing)

Committee Recommendation:

Important Dates:

Notes: Matthew Barber – Maintenance (District 4), Paul Harvey – Maintenance Office, David Neighbors – Construction Office, Eugene Utsalo – Geotechnical Branch

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NPE# 2501-1 Transportation Control Systems – “TCS-WWD-OR” (10:35 am)

Product Description: Utilizing Bosch's video as a sensor for the initial detection of a Wrong Way event, the edge computing device activates the video detection system to capture multiple images of the event with an option to push the video stream to a customized dashboard for playback later.

Material Composition It is composed of: LiDAR and Video, LED Flashing WWD Signs, and edge computing via Centralized logic platform.

Recommended Use: It is recommended for Wrong Way detection for ramps and mainline detection.

Product meets GDOT Specification: Product falls outside of current GDOT specification.

Cost: \$25,000 per unit

Committee Recommendation:

Important Dates:

Notes: David Miranda – Traffic Operations Office, Shronica Holland – Transportation Data Office

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