

CIA TEAM

**INFRASTRUCTURE
PRESERVATION**

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FHWA – Nunzio Merla



EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC²)



Purpose:

To implement the use of internally cured concrete to reduce shrinkage cracking and achieve long-term performance in concrete bridges, roads and repairs.



EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC²)

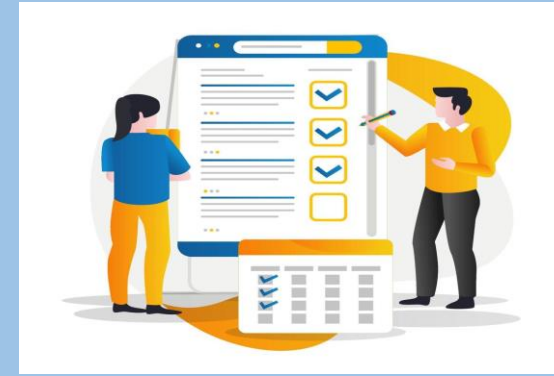
Status:

- HPIC Specifications have been finalized
- Incorporated in Special Provisions for 1st pilot project





EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC²)



Status:

- Coordinated with suppliers for availability of materials and supply experience





EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC²)

Status:

- Attended the NYS Peer Exchange on EDC-7 EPIC² Initiative on May 29-30, 2024, in Albany, NY.

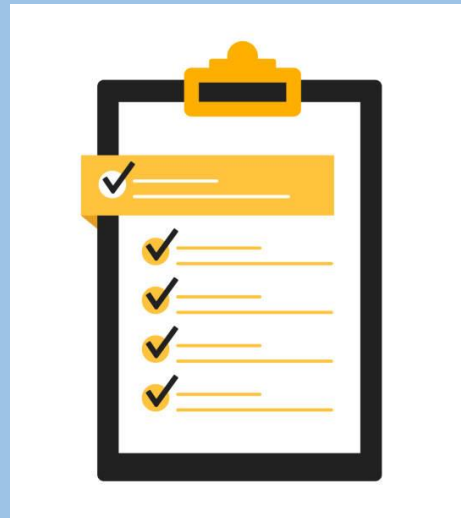




EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC²)

Currently Working on:

- Preparing for the Final Design Submission of the candidate bridges
- Scoping additional projects
- Applying for STIC incentive funding
- Coordinating with Bureau of Materials and Regional Materials





EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC²)

Next Quarter:

- Continue coordination with concrete suppliers
- Purchase several centrifuge apparatuses
- Update the HPIC Specifications



Figure 1—Centrifuge Apparatus (Source: LTRC/DOTD)



UPDATE on EDC-6 UHPC Innovation



- Developing a lessons-learned publication on UHPC overlays



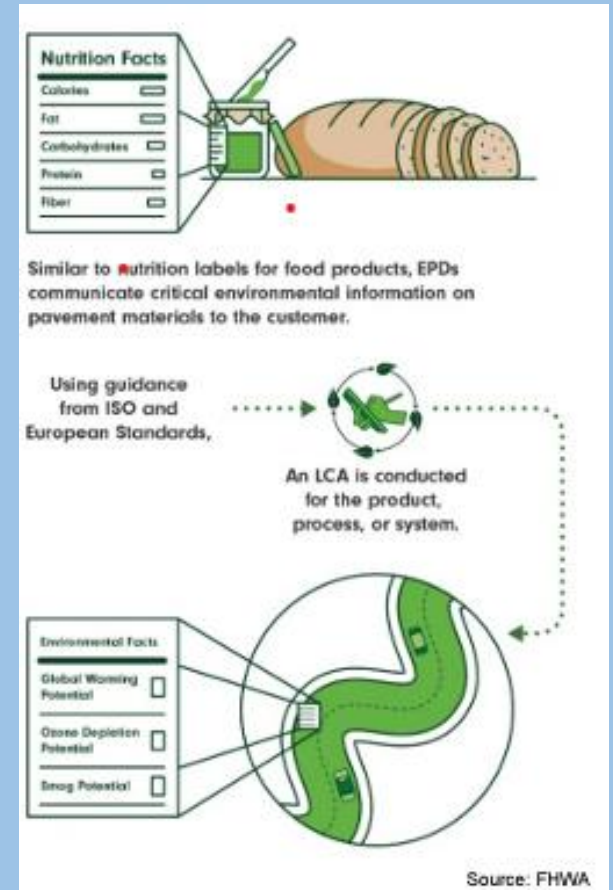


EDC-7 Environmental Product Declarations (EPDs) for Sustainable Project Delivery



Purpose:

To identify and understand the environmental impacts from resource use, energy, and emissions in construction and consider alternatives using third party verified reports.





EDC-7
Environmental
Product
Declarations
(EPDs) for
Sustainable
Project Delivery

Status:

- Attended FHWA Climate Challenge & EDC-7 EPDs for Sustainable Project Delivery National Symposium





EDC-7
Environmental
Product
Declarations
(EPDs) for
Sustainable
Project Delivery

Currently Working on:

- Comparing specialty mixes to regular mixes





EDC-7
Environmental
Product
Declarations
(EPDs) for
Sustainable
Project Delivery



Next Quarter:

Continue working on:

- research efforts and state surveys
- project tasks related to FHWA's Climate Challenge



Questions?