

TR202406: Using Rubber Powder to Improve F/T Durability of Concrete

Questions and Answers

Q1: Please explain the applications for the type of concrete mentioned in TR202406? This will help us identify the required strength/workability that the research team needs to target for the mix design.

A1: A typical pavement mix using Type 1L cement.

Q2: Do we need to submit the concrete mix designs as a part of the proposal for approval?

A2: They do not need to be part of proposal submission but will need shared/approved by MoDOT (see Task 4).

Q3: What is the max. and min. particle size of rubber powder MoDOT plans on using in the concrete?

A3: To be determined by researchers. Literature review may provide guidance.

Q4: What is the range of percent rubber powder they want to test?

A4: To be determined by researchers. Literature review may provide guidance.

Q5: Is there a particular source of aggregates MoDOT expects the research team to use?

A5: Approved for concrete pavement and has a durability factor of at least 80, preferably 90 or better if we have a choice. Our current control aggregate is: Ledges 10-1 Kimmswick from Central Stone #1 Hannibal.

Q6: Does MoDOT expect the research team to use different types and sources of aggregates?

A6: No, prefer to use only one source that is approved for PCCP.

Q7: Can the research proposal include a budget (within \$5,000 - \$10,000) for equipment and consumables required for testing?

A7: Budgets are not required in proposal, but is required for contract and must be within limit stated in RFP. Any purchase of equipment that is \$5,000 or more must be approved by Federal Highway.

Q8: The lead researcher has a PE license in Virginia and Florida but is in the process of obtaining a PE license in Missouri. Would MoDOT consider the proposal if a Missouri PE license for the lead PI is in the process of approval and not yet received?

A8: Must be licensed in Missouri, there can be two Co-PIs where one has their MO license and the other does not.

Q9: Does each of the key personnel (PI and Co-PIs) need to submit 3 client references or collectively are 3 client references for the team sufficient?

A9: Only need to submit a total of 3 client references.

Q10: How to best complete the Project Experience of Org form if more than one organization is collaborating?

A10: Both agencies will need to submit project experience.