**Third International Interactive Symposium on UHPC**

**Student Competition – Report**

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**Student Name(s):**

**Educational Organization:**

**Faculty Advisor Name:**

**Submission Date:**

**Competition Category** (select one):  Classic  Extra Light

**a. Mix Design**

* *Provide a short summary of the mix design. Mention the brand of each constituent, if applicable, e.g., cement (Lehigh). Include 5-7 sentences stating all constituents and specific reasons why these constituents were chosen.*
* *How many trials of mix designs did your team perform and what methodology was used to converge to the optimal ratio? How did the addition or subtraction of each constituent affect the compressive strength and unit weight of the UHPC?*
* *Fill out Table 1.*

|  |  |  |
| --- | --- | --- |
| **Table 1 – Mix Design for One Cubic Meter of UHPC** | | |
| **Constituent** | **Batching Quantity (kg)** | **Cost (USD)** |
| *Ingredient #1(Brand)* | *---* | *---* |
| *Ingredient #2(Brand)* | *---* | *---* |
| *Ingredient #3(Brand)* | *---* | *---* |
| *…* | *---* | *---* |
| **Total** | *---* | *---* |

**b. Summary of Results**

* *Provide a short summary of the methods used to cast, prepare, and test the specimens. How were the specimens cast? When were the specimens demolded? How were the specimens cured and prepared for testing? What testing equipment was used? What rate of loading was used for testing?*
* *Provide any other additional information that your team feels is important.*
* *Fill out Table 2*

|  |  |
| --- | --- |
| **Table 2 – Summary of Results** | |
| Age of UHPC at Testing (days) | **---** |
| Average Compressive Strength (MPa) | *---* |
| Average Dry Density at Testing (MPa) | *---* |
| Flow, Initial (mm) | *---* |
| Flow, 30 Min (mm) | *---* |

**c. Supplemental Information**

* *Provide a photo of the flow testing (ASTM C1437)*
* *Provide a photo of a representative UHPC cylinder after testing*
* *Provide a 10 second video showing the flow test, failure and peak load of the cylinder during compressive testing. Submit as a video file accompanying the submission of this report*