



## Uses of Engineered Hybrid Cementitious Composites (EHCC) with STF

- A. **Repair of Structures:** EHCC offers the benefit of high strain capacity and improved resistance to cracking. As a result, EHCC can be useful material for repairing structures especially those with severe surface defects.
- B. **Seismic Retrofit:** Because of the high strain capacity in flexure and high energy absorption, EHCC can be used for seismic retrofit of structures when applied externally as a thin coat. These structures may include unreinforced masonry walls, wood-frame structures, etc. The high damage tolerance and the ability to deform under both tension and shear give it superior properties in the seismic retrofit projects compared to plain cement-based materials.
- C. **Retaining Structures:** Retaining walls require high deformability to conform to the applied charge. With its highly deformable nature, EHCC can therefore be used for earth retaining structures as well as for the repair of such structures.
- D. **Reinforced Concrete Structures:** EHCC would be ideal for structures such as coupling beams in high rises, beam-column joints, foundations, etc. especially to mitigate earthquake damage.
- E. **Bridge-Decks:** Both as a material of construction as well as for repairs.
- F. **Precast products:** High damage tolerance will provide durability and resistance to precast products and prevent cracking and shattering in transportation and placement.
- G. **Blast and Impact Resistant Structures:** With very high energy absorption capacity, EHCC would be an excellent material for structures that are subjected to blast and impact such as defense bunkers, protective structures, anti-terrorism fences, etc.
- H. **3D Printing:** of modular structures including homes and buildings.

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