



Semplastics unveils progress on Appalachian coal roof tile prototype

Semplastics partners with CART to create a full size X-TILE™

ORLANDO, Fla. (April 17, 2019) – First they created a coal-based roof tile, called X-TILES™, made of Appalachian coal. Now, Semplastics is collaborating with their West Virginia partner, CART (Center for Applied Research and Technology), to produce a full-size prototype of their extraordinary roof tiles.

Made with a Phase 1 Small Business Innovation Research (SBIR) grant from the Department of Energy, X-TILES™ are eco-friendly, fireproof roof tiles that exceed industry standards and test the limits of ceramic roof tiles. This breakthrough invention sequesters the carbon from the coal in the structure of the roof tile ceramic. Thus, these X-Tiles™ provide a new environmentally benign way to use coal.

The first full scale X-TILES™ prototype will be fabricated by June 30, 2019 in a collaborative effort between CART and Semplastics. This innovative full scale component will provide valuable processing information necessary for large-scale manufacturing.



Semplastics' X-TILE™ sample made of Appalachian coal

“This is an exciting time for Semplastics,” said Founder and President, Bill Easter. “Producing an X-TILES™ prototype of this scale will allow us to make any necessary changes to our formulation before we begin digging in with Phase 2. Our X-TILES™ are now one step closer to the market.”

Semplastics hopes to secure a Phase 2 SBIR grant from the Department of Energy to further their progress on X-TILES™. Phase 2 would allow for Semplastics to produce their roof tiles in larger quantities, at a lower cost.

About X-MAT®, the Advanced Materials Division of Semplastics

X-MAT®, the Advanced Materials Division of Semplastics, launched in 2013. X-MAT® developed a revolutionary high performance material that combines some of the best properties of metals (electrical conductivity), engineering plastics (lightweight) and ceramics (high operating temperature). X-MAT® has had several partnerships including work with NASA, Space Florida and the Department of Energy. X-MAT®'s game-changing material has various current applications including fireproof roof tiles,

lightweight space mirrors, battery electrodes and 3D printing ceramics. With X-MAT[®], the possibilities are endless. X-MAT[®] technology can be custom-engineered to fit many specifications and has unlimited potential market applications. To learn more about X-MAT[®] capabilities and future projects, visit their website at <https://www.x-materials.com> or call (407)353-6885.

Media Contact

Will Wellons

Wellons Communications

407-339-0879

will@wellonscommunications.com