



Semplastics announces new name for revolutionary roof tiles, X-TILES™

Material engineering company brands its one-of-a-kind West Virginia coal roof tiles

ORLANDO, Fla. (March 12, 2019) – A revolutionary, value-added roof tile made of West Virginia coal has a new name—X-TILES™.

X-TILES™ are eco-friendly, fireproof roof tiles that exceed industry standards and test the limits of ceramic roof tiles. They are created and developed by Semplastics' Advanced Materials Division, X-MAT®. X-TILES™ resulted from the company's work with a grant from the Department of Energy.

X-TILES™ are a game-changer. By sequestering the carbon within the coal during their production, this process reduces emissions and eliminates environmental hazards. Not only are there environmental benefits to the production of X-TILES™, their manufacturing could revolutionize the coal and roofing industries—creating jobs and spurring domestic manufacturing of roof tiles.



Semplastics' X-TILES™ roof tile made of West Virginia coal

X-TILES™ have extraordinary qualities that differentiate them from ceramic alternatives in the market. X-TILES™ are:

- 30 percent lighter than ceramic roof tiles
- Between 2-4 times stronger than ceramic roof tiles
- Able to withstand temperatures between -150 and 1,100 degrees Celsius

“We’ve made dramatic progress with our Phase 1 grant from the Department of Energy. Our X-TILES™ made of West Virginia coal could lead to ground-breaking developments in performance and safety—their fireproof abilities and strength are crucial for protecting homes in the event of natural disasters. We look forward to continuing the development of our X-TILES™,” said Bill Easter, CEO and Founder of Semplastics.

The next step for Semplastics is securing a Phase 2 grant—this will allow their team to further progress on development and production of their X-TILES™.

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.

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