



## Tradition Meets Sustainability

Fred D. Thompson U.S. Courthouse and Federal Building, Nashville, TN

The Fred D. Thompson U.S. Courthouse and Federal Building located in Nashville, Tennessee design combines the symmetry and elegant proportions of classical architecture with contemporary elements that indicate the building's future-focus.

Project designers took steps to maintain the cleanliness of the building's façade and specified that its precast panels be cast using TX Active® photocatalytic cement. The photocatalysts in TX Active® cement react with sunlight and accelerate the oxidation processes that occur in nature—essentially making the concrete self-cleaning.

GATE Precast Company of Ashland City, Tennessee, produced and placed the 30,000 square feet (2,800 square meters) of dynamic architectural precast concrete wall panels used on the courthouse. Heidelberg Materials supplied GATE with the 1,000 metric tons of TX Active® photocatalytic cement required for the project.

This Courthouse project won the 2024 PCI Design Award for Sustainable Design and an honorable mention for Government and Public Buildings. See video.



### A pioneer in sustainability

Heidelberg Materials uses its combined forces to lead the field in decarbonizing the industry. Developing sustainable and intelligent heavy building materials, we provide the **Material to build our future.**

### TX Active®: good, clean design

When applied to various materials, photocatalysis creates a “self-cleaning” effect. While early photocatalytic cements were effective in keeping surfaces clean, the levels of photoactivity achievable with TX Active cement is such that it actually abates the organic and inorganic substances responsible for air pollution.

The Fred D. Thompson U.S. Courthouse and Federal Building is the largest TX Active® project in the world to-date.

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