

Big on efficiency, small on space

Covestro's materials are a sustainable option for housing applications

Page Content

Covestro recently donated materials to two projects that focus on the “tiny home” trend. The “tiny home” concept harnesses the current interest in living large within a smaller home footprint. This trend demonstrates highly-efficient building practices and products bundled in a tiny living space.



The Next Gen NetZero + Healthy Home 2016, which utilizes Covestro materials, making its debut at the International Builder's Show this month in Las Vegas.

NextGen Net Zero + Healthy Home 2016

The [NextGen Net-Zero + Healthy Home 2016](#) was unveiled at the International Builders' Show (IBS) in Las Vegas last week. The home was built to achieve net-zero energy usage and showcased products that improve indoor air quality and whole house water quality. Covestro donated Bayseal® Closed-cell (CCX) SPF insulation and Bayblock® elastomeric coating for the home.

At less than 450 square feet, the NextGen Net-Zero + Healthy Home is 1,700 square feet smaller than the average U.S. home built in 2014. [Shelter Dynamics](#) was responsible for the design and construction oversight.

“This is an exciting opportunity for us, to be part of a showcase home that will exemplify two of the biggest trends in homebuilding today – efficient and small. Energy efficiency is the outcome of a home designed to be smart, to work as an integrated system rather than many separate components. Covestro insulation products help optimize the whole system,” says [Jeremy Parker](#), national sales manager for Covestro spray insulation and roofing systems.

A hybrid insulation system of polyiso board, Bayseal® CC, plywood and Bayblock® coating prevents air leakage. The home achieves a net-zero energy usage with the addition of solar panels. The Bayblock® coating, which is 100% acrylic, creates a continuous, seamless coating around the entire home that is weatherproof and highly resistant to UV-degradation.

Shelter Dynamics estimates starting prices on similar pod homes will be \$120,000 - \$140,000.



Plastics Make It Possible® co-sponsored the building of this Tiny Home exhibit, which featured a front door with donated materials from Covestro.

Tiny House

[Plastics Make It Possible®](#) and Zack Giffin, co-host of FYI Network's "Tiny House Nation," teamed up to build a tiny house using innovative plastic building products that improve a home's overall energy efficiency. The 170-square-foot tiny house-exhibit – "A Tiny House That's Big on Energy Efficiency" – opened to the public at the California Science Center in Los Angeles last November.

[Jeld-Wen](#), a Covestro customer, donated the front door to the house that utilizes our materials. The skin of the door was made using our Baydur® material, which features high impact, corrosion and moisture resistance, low thermal expansion and high thermal insulation.

California Science Center guests are invited to explore the exhibit to learn how the various plastic building products used on its interior and exterior can reduce energy usage, improve the house's durability and ease maintenance – all while saving homeowners money on energy bills. To learn about how each component of the house increases its overall sustainability, click [here](#).

"This tiny house is a great way to show how modern building materials can improve any home's energy efficiency," said Steve Russell, vice president of plastics at the American Chemistry Council, which sponsors the [Plastics Make it Possible®](#) initiative.

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