

# SPRAY FOAM INSULATION: HELPING CREATE STRONGER BUILDINGS

Insulation may not be at the top of mind when you think of developing durable and resilient structures, but did you know that spray foam can play a critical role in helping strengthen buildings?

## How Does Spray Foam Contribute to More Resilient Buildings?

Spray foam improves the resiliency and durability of buildings in a variety of ways against a variety of natural disasters.



Closed cell spray foam can survive wetting and drying and can be successfully cleaned after a flood. Because of these qualities, the U.S. Federal Emergency Management Agency has classified it as highly resistant to floodwater damage.<sup>1</sup>



During hurricanes, thunderstorms, and high wind events, the roof is one of the most vulnerable areas of a home. The adhesive bond between closed cell spray foam and the roof deck helps glue the roof to the home, preventing strong gusts of wind from blowing the roof off.<sup>2</sup>



Spray foam also helps create stronger wall systems. Because walls with closed cell spray foam insulation have higher racking strength and the ability to maintain shape under duress, applying it in the cavities of walls increases the durability of the wall system.<sup>3</sup>



Eliminating attic vents by creating an unvented attic with spray foam insulation can help prevent embers from entering an attic during a wildfire. Preventing embers from entering an attic can help prevent a home from igniting, potentially saving it from destruction.<sup>4</sup>

## SPRAY FOAM, PROTECTING BOTH YOUR HOME AND THE ENVIRONMENT.

If you're looking for an insulation to improve the sustainability of your home, look no further than spray foam. Not only does it help reduce [greenhouse gas emissions](#) and have [a low environmental payback](#), but it also helps create stronger, more resilient buildings. Stronger buildings may mean less repair and reconstruction, which means less consumption of resources. Thus, spray foam helps protect both your home and the environment.

<sup>1</sup> Flood Damage-Resistant Materials Requirements" FEMA Technical Bulletin 2, August 2008

<sup>2</sup> Severe Weather and Walls/Roofs: The case for using spray polyurethane foam (SPF) in hurricane zones

<sup>3</sup> SPF Strengthens Buildings

<sup>4</sup> Attic and Crawlspace Ventilation: Implications for Homes Located in the Urban-Wildland Interface