



ECO₂ DRIVEN



The patented, chemical-free
SPRAY TECHNOLOGY FOR CANISTER ADHESIVES.
Only naturally-occurring atmospheric gases
used as a blowing agent

THE EVOLUTION OF DRIVING CHANGE

A brief timeline following the history of canister adhesives and the blowing agents that make them operate

BEFORE CANISTERS



Before the introduction of canister adhesives, roof systems relied on attachment through mechanical fasteners or roller/trowel applied adhesives. These labor intensive installations were prone to inconsistency, and compromised roof performance.

LATE 1990's



By the late 1990's canisters were using HFC (hydrofluorocarbon) as the blowing agent - this came with high GWP and a high impact on greenhouse gas emissions. Improper handling of the canister or exposure to the blowing agent could have a negative affect on user health. The impact of canisters on the industry was groundbreaking though, and supported the ease of adhesive application in a less time-consuming way.



MID 2010's

Tightening regulations saw blowing agents transition to HFO (hydrofluoroolefin) - without compromising on performance, HFO has a lower GWP than HFC. In addition HFOs have better environmental, and safety standard compliance.

CO₂

2025 & BEYOND

ECO₂ Driven Technology was developed using a proprietary blend of naturally-occurring atmospheric gases as a blowing agent. It features low GWP, high sustainability, and is safer for the end user, along with enhanced application consistency.



THE PATH TO A BETTER FUTURE



Why is ECO₂ Driven Technology important, and what are the benefits of adopting this innovation?

VOC and GWP reduction regulations are still developing and evolving, which means ECO₂ Driven Technology is a leader in this space, developed in anticipation of the regulations to come. ECO₂ Driven is a proactive approach to eco-consciousness, which can save you considerable money, time, and effort by skipping intermediate changes that will eventually become obsolete or outside of regulatory requirements.

Drive eco-responsible change by looking for the **ECO₂ DRIVEN** logo

PATENT NUMBER
US 11,999,556



TM

THE FACTS ABOUT CANISTERS



THE BENEFITS

- Portable and easy to transport
- Faster application with consistent results
- Reduction in waste; components can be recycled
- Assist in compliance with modern VOC regulations
- Improve worker productivity and safety
- Provide more even coverage and higher efficiency, reducing material waste
- Canisters offer a no/low-mess, quick application process compared to manual tools



UPFRONT CHALLENGES

- Higher upfront cost (although, application equipment is included)
- Must be stored properly
- Training helps get optimal usage



HOW TO GET THE MOST OUT OF YOUR CANISTERS

- Store upright in a cool, dry place
- Clean nozzles regularly to prevent clogs
- Follow disposal instructions precisely



DISPOSAL STEPS

- Ensure canisters are depressurized before opening the knock out disc
- Recycle components where available
- Follow local guidelines for hazardous material disposal

SUSTAINABILITY BENEFITS

When using adhesives in place
of mechanical fasteners

Labor Savings

Canister adhesives require less labor in terms of actual staff & amount of time to apply

No Thermal Bridging

Using adhesives means no thermal bridging, improving R-Value vs. fasteners, and offsetting the cost of install over the life of the system

Will Not Penetrate Roof System Or Deck

Adhesives offer less opportunity for leaks and damage to building during re-roofing

Reduces Point Loading

Adhered roof systems have better distribution of stress and high wind uplift ratings

TO LEARN MORE
about ECO₂ Driven Technology



construction@hbfuller.com

1-800-248-4010