

# BUILDINGS MATTER

**100 years** the average lifetime of the building stock



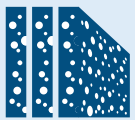
**Buildings** account for **40%** of the EU's energy consumption.



The EU's buildings stock is responsible for **36%** of its CO<sub>2</sub> Emissions.



**Energy efficiency measures**, such as **insulation**, could reduce energy consumption by **up to 80%**.



**Insulation foam** is one of the **most efficient types of insulation** and can be used for new and existing buildings. Improving the energy performance of the existing building stock is a key objective in the EU. Non-flammable HFCs are used as insulating gas in closed "cells" and remain in the foam during its lifetime of use.

## WHY SPRAY FOAM INSULATION



it provides for a seamless, continuous and **permanent barrier** to moisture and air



it can be used to **insulate existing buildings**



it is **time efficient** to apply



it has **best-in-class insulating value** (R-value)



it **expands** to fill gaps and cracks and voids in **walls** and **ceilings**

**Spray foam** is produced by small mobile machines and requires a **non-flammable blowing agent** for safety during application.

## HFCs AND SPRAY FOAM INSULATION

HFCs are used as blowing agents in insulation foams



HFCs are **not-flammable**, and ideal for spray foam application



HFC blowing agents can **do more with less** insulation and thus **save space**



HFCs have **low toxicity** contributing to safe use



HFC-245fa, and HFC-365mfc/227ea are the **non-flammable**, HFC blowing agents typically used for **spray foam applications**