

SOUDAL EXPANDING FOAM

PRODUCT TRAINING GUIDE



EXPERTS IN SEALANTS, FOAMS AND ADHESIVES

EXPAND YOUR CAPABILITY WITH SOUDAL FOAMS

Soudal is the world's largest independent manufacturer of polyurethane expanding foams, producing over 130 million cans annually.

Professional-grade foams trusted worldwide, our foam range delivers reliable sealing, insulation, and bonding solutions across a wide range of construction applications.

What sets Soudal apart is not just the breadth of the range, but the innovation behind it — from precision applicators like the Genius system to advanced technologies such as flexible and isocyanate-free foams.

**Whether it's ease of use, control, or performance,
Soudal provides the right foam solution for every job!**





WHAT IS EXPANDING FOAM ?

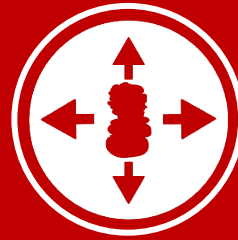
Expanding foam is a polyurethane-based product dispensed from a pressurised can. It expands after application to fill gaps, seal cavities, and provide insulation.

It is commonly used in construction for:

- Gap filling
- Air sealing
- Insulation
- Light bonding applications

Different foam types are designed for specific applications, delivering varying levels of flexibility, expansion, and performance.

KEY ATTRIBUTES OF PU FOAM



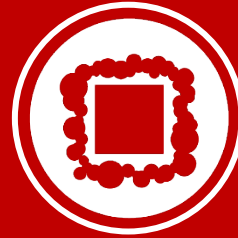
EXPANSION

Self-expanding to fill gaps and voids



ADHESION

Adheres to a wide range of substrates



INSULATION

Provides thermal and acoustic insulation



CURING

Moisture-curing formula (activated by humidity)



WORKABLE

Can be cut, shaped, and painted once cured



LAYER BUILD UP

Can be built up in layers for deep gaps



NOT UV RESISTANT

Not UV stable (must be covered if exposed)

APPLICATIONS

Expanding foam is used across a wide range of construction and installation applications.

Applications:






- Sealing around windows and door frames
- Filling gaps and penetrations (pipes, cables)
- Insulating cavities and joints
- Reducing noise and vibration
- Improving thermal efficiency








Soudal's Duravalue technology ensures consistent foam flow, prevents gas loss, and reduces product waste.



ADVANTAGES

-  Easy to apply
-  High expansion and gap filling capability
-  Thermal and acoustic insulation
-  Strong adhesion
-  Paintable once cured

DISADVANTAGES

-  Not UV resistant
-  Difficult to remove once cured
-  Requires layering for deep gaps
-  Some post-expansion
-  Requires moisture to cure

EXPANDING FOAM RANGE



PU FOAM

- All-round performer
- High yield and strong insulation
- Suitable for most applications



FLEXI FOAM

- High flexibility for movement
- Ideal for windows & doors
- Superior acoustic performance

There are three main types of expanding foams.



SMX FOAM

- Isocyanate-free technology
- Lower VOC solution
- Flexible and sustainable alternative

APPLICATOR OPTIONS



Gun Grade

- Professional control and precision
- Best for frequent use



Click & Fix

- Fast connection system
- Easy and efficient



Genius Applicator

- Built-in system
- One-handed use
- Reusable up to 6 weeks



Straw / Aerosol

- Simple, one-off applications



SOUDAL PRO EXPANDING FOAM

A high-performance all-round foam designed for professional use, offering excellent adhesion, high yield, and reliable sealing performance across a wide range of applications.

Features & Benefits:

- Excellent adhesion to most substrates
- High expansion and yield
- Available in multiple formats
- Compatible with Genius applicator



SOUDAL FLEXI FOAM

Key Benefits:

- High flexibility (absorbs movement)
- Excellent acoustic insulation (up to 60dB)
- Airtight and moisture-resistant seal
- Reduces trimming and waste

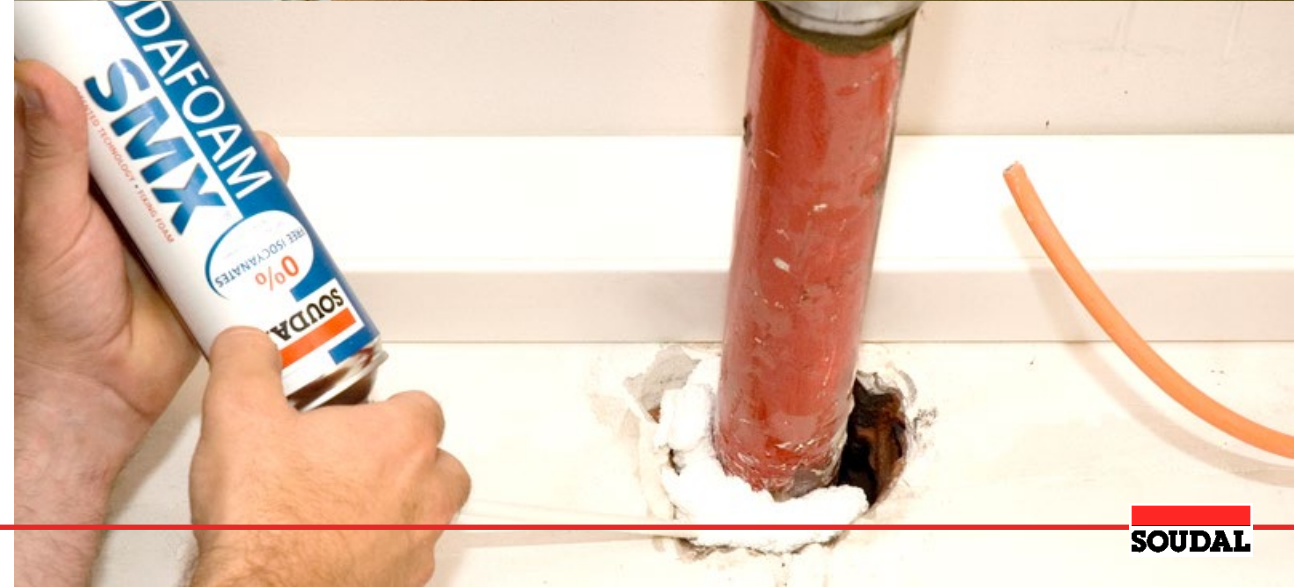


SOUDAL SMX FOAM

An innovative isocyanate-free expanding foam designed for safer handling and improved environmental performance.

Key Benefits:

- Isocyanate-free technology
- Lower VOC solution
- Flexible and durable
- Suitable for standard foam applications



KEY TAKEAWAYS

- Expanding foam is essential for sealing, insulating, and filling
- Soudal offers solutions for every application
- Choose the right foam based on movement and application
- Applicator choice impacts ease of use and control
- Innovation like Genius and Duravalve improves performance and reduces waste

