



Handi-Foam

Quick Rise expansion (QR)



Two Component Polyurethane Spray Foam

- Withstands temperatures between -129°C to $+115^{\circ}\text{C}$.
- Application to surfaces with irregular shapes & penetrations.
- Ideal for Roof / Loft & Crawl space insulation!
- Energy savings and improving your comfort!
- User-friendly packaging and “Ready-to-Use” systems.
- Most effective form of thermal insulation.
- Environmentally friendly - contains no HCFC's and CFC's.



HANDI-FOAM

Handi-Foam, a portable Two-Component Polyurethane Spray Foam system, easy to use and small investment in equipment, is the ideal insulation foam for thermal insulation jobs, set design, marine applications, repair, glue and many more industrial applications! When the contents of the two tanks are dispensed, they chemically react to produce a froth-like substance, which quickly expands to about five to eight times the dispensed volume. **Handi-Foam** spray insulation resists moisture, insulates, deadens sound, adds structural support, provides a continuous air-barrier, fills and seals various size voids, keeps out dust, smoke and odour. Apply **Handi-Foam** onto any clean and dry surface in any direction. **Handi-Foam** has a > 95% closed cell structure and is available in various packaging sizes to meet specific job application requirements.



Handi-Foam is “B2” (DIN 4102-1) and “E” (EN 13501-1) classified and available in a Quick Rise formulation. Accessories such as the “Gun Hose Assembly” (GHA) and nozzles can be supplied separately.



Optimum application temperature is 24°C (75°F), but may be sprayed onto colder or warmer substrates, with slight effects on the foam characteristics. Cured foam is resistant to heat and cold (-129°C to +115°C), and to aging, but not UV rays (i.e. sunlight) unless painted, covered or coated. Cured foam is also chemically inert and non-reactive in approved applications. **Handi-Foam** systems require no outside mechanical or electrical power source (“Ready-to-Use”) and are disposable.

Technical Data:

	Handi-Foam II-16	Handi-Foam II-205	Handi-Foam II-605
Expanded volume	38 Litres	430 Litres	1.430 Litres
Density (ASTM D-1622)	28 kg/m ³	28 kg/m ³	28 kg/m ³
Expansion time	30 – 60 sec.	30 – 60 sec.	30 – 60 sec.
λ-Value (90 days @ 60°C)	0.024 W/mK	0.024 W/mK	0.024 W/mK
R-Value (90 days @ 60°C)	1.06/inch (2.54 cm)	1.06/inch (2.54 cm)	1.06/inch (2.54 cm)
Air Barrier Properties (ASTM E-283) @ 300 Pa @ 75 Pa (extrapolated)	0.05 L / s / m ² 0.0125 L / s / m ²	0.05 L / s / m ² 0.0125 L / s / m ²	0.05 L / s / m ² 0.0125 L / s / m ²
Perm Rating (ASTM E-96) 1” (2.54 cm) 2.5” (6.35 cm)	1.99 1.18	1.99 1.18	1.99 1.18
Tensile Strength (ASTM D-1623)	317 kPa (46 psi)	317 kPa (46 psi)	317 kPa (46 psi)
Compressive Strength (ASTM D-1621) Parallel @ 10 % Perpendicular @ 10 %	182 kPa (23 psi) 110 kPa (16 psi)	186 kPa (27 psi) 124 kPa (18 psi)	186 kPa (27 psi) 124 kPa (18 psi)
Dimensional Stability (ASTM D-2126) Heat age 70°C (+158°F) Humid age 70°C (+158°F), 100% RH Cold age - 20°C (-4°F)	-0.6 % +2.9 % -0.3 %	-0.6 % +2.9 % -0.3 %	-0.6 % +2.9 % -0.3 %

Important Note: Use only in well ventilated areas or with certified respiratory protection. Wear impervious gloves, protective glasses and suitable work clothes when using. Read all instructions and safety information (MSDS) prior to use of any product. The product contains no formaldehyde. Cured foam is non-toxic.

Product Storage: Store in a cool and dry area in the upright position. Do not expose to an open flame or temperatures above 49°C (120°F). Excessive heat can cause premature aging of components resulting in a shorter shelf life. Containers are under pressure. Do not open with force or incinerate even after use.

Application / Use: Valves must be in the upright position. Materials are dispensed through hoses and mixed in a disposable nozzle. Once foaming has stopped, the dispensing unit must be reactivated within 30 seconds or a new nozzle must be installed. Fresh Handi-Foam may be applied in several stages to reduce overfilling or void damage to non-rigid, confined cavities. Cured foam can only be removed mechanically.