

ENERTITE®

More Than Just Insulation
TYPE 2 Low Density Insulation

Raising Performance To New Heights®

ENERTITE is a low density water based spray polyurethane foam system that does not contain CFC, HCFC, urea formaldehyde, asbestos or HFC. Its performance characteristics make it an ideal product for residential, commercial and institutional applications.

- No sagging
- Excellent sound absorption
- Very low water absorption
- Ozone friendly and reduces greenhouse gas emissions
- Excellent adhesion
- High insulation value
- Excellent dimensional stability

ENERTITE is installed by certified contractors.

Density (core)		
(ASTM D-1622):		
kg/m ³ (lb/ft ³)	8.26	(0.52)
Compressive strength		
(ASTM D-1621): Parallel to rise (10% compression)		
kPa (psi)	12.4	(1.8)
Water absorption		
(ASTM D-2842): % by volume		
	3.2	
Dimensional stability		
(ASTM D-2126): % volume change after 28 days		
-29°C (-20°F)	+0.5	
70°C (158°F) 95% RH	+5.7	
80°C (176°F)	+1.4	
Thermal resistance		
(ASTM C-518):		
m ² •°C/W/25 mm	0.67	
[ft ² •hr•°F/Btu]/in	3.8	
Air leakage (material only)		
(ASTM E2178-03):		
L/s/m ² at 75 Pa	0.0076	
Water vapour permeance		
For a thickness of 25.4 mm (1 inch)		
(ASTM E-96): ng/Pa•s•m ²		
Perm	894	14.90
Flame spread classification*		
(CAN/ULC-S102 including -S127)		
Smoke determined	430	260
Acoustical properties		
(in accordance with ASTM C423-02a):		
Hz. freq.	Between 125 to 8,000	
Sound absorption average (SAA)	0.59	
Noise reduction coefficient average (NRC)	0.60	
Emissions during aging volatile organic compound (VOC)		
(CAN/ULCS774):		
Residential occupancy time of 24 hours		
Fungal resistance		
(in accordance with ASTM C1338-96):		
Does not support fungal growth		

* Numerical flame spread ratings are not intended to reflect hazards presented by this or any other material under actual fire conditions.

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ENERTITE® by **BASF** – The Chemical Company

BASF

The Chemical Company

Certification

ENERTITE is listed under:

- **CCMC 13055-R**
for insulation (type 2)



MEMBER

energia



ASSOCIATION QUÉBÉCOISE
POUR LA MAÎTRISE DE L'ÉNERGIE



ENERTITE
Insulation System

Can help your construction project
attain Leadership in Energy and
Environmental Design

ENERTITE®

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Applications

ENERTITE also meets the requirements of the CCMC Technical Guide for spray-in-place, open-cell polyurethane (OPF) foam thermal insulation and must be applied by certified contractors.

General Application Instructions

ENERTITE, properly applied, will produce high quality polyurethane foam. The system must be applied between -10°C to +40°C (14°F to 104°F). Spraying on lower temperature surfaces may result in poor adhesion between the foam and the substrate. When spraying, the minimum temperature in the drums for the ENERTITE and Lupranate 17 isocyanate **MUST** be at 24°C (75°F).

Machine parameters (field)

Primary heater temperature, resin and iso	38°C to 43°C (100°F to 110°F)
Hose heater temperature	38°C to 43°C (100°F to 110°F)
Mixing pressure	55 to 76 bar (800 to 1,100 psi)

Storage Recommendations

Resin and isocyanate must be stored on pallets in a dry location and away from sunlight and other sources of direct heat.

	Isocyanate	Resin
Shelf life	12 months	3 months
Temperature	16°C - 27°C (60°F - 80°F)	16°C - 27°C (60°F - 80°F)

Health, Safety and Toxicity Considerations

Handling recommendations:

Isocyanate – Lupranate 17

- Use personal protective equipment (see MSDS)
- Avoid all contact with skin and eyes
- Do not inhale the vapours
- Do not store in a humid environment
- In case of minor spills, absorb using sand or absorbing material (no sawdust)
- For more severe spills, contact BASF Canada at 1-800-454-2673, or any agency specialized in chemical damage control (e.g. CANUTEC at 613-996-6666)
- For more information, please consult the MSDS

Resin ENERTITE

- Use personal protective equipment (see MSDS)
- Avoid all contact with skin and eyes
- For more information, please consult the MSDS

Application Safety

While spraying, always work with adequate ventilation. Protective gloves, overalls, eye protection, safety shoes, hard hats and a properly fitting breathing apparatus supplying fresh air **must** be worn by the installers (and others working within 10 meters of the installer) at all times while spraying. Persons with known respiratory allergies must avoid exposure to the isocyanate component. If inhalation of the vapours

occurs, remove the person from the working area to breathe fresh air and if breathing is still difficult call a physician. Avoid contact with eyes, skin and clothing. In case of eye contact, immediately flush with large amount of water for at least 15 minutes and call a physician immediately. In case of skin contact, wash area with soap and water. Wash soiled clothing before reuse.

Drum Description

Isocyanate: Red 250 kg (551 lb), steel drum
Resin: Blue 200 kg (440 lb), plastic drum

Fire Hazard

Fires involving either component may be extinguished with carbon dioxide, dry chemical, or an inert gas. Application of large quantities of chemical spray is recommended for spill fires. Personnel fighting the fire must be equipped with self-contained breathing apparatus.

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BASF Canada

For information, call:

Eastern region

ON, QC, MAR
Toll-Free: 1-866-474-3538

Western region

BC, AB, SK, MB, NWT, YT, NU
Toll-Free: 1-800-891-0671



The Chemical Company