

ENERTITE® Series Water-blown Spray Foam Product

IT IS STRONGLY ENCOURAGED TO COMPLETE A QUALITY CONTROL DAILY REPORT AND AN INSULATION CARD FOR EACH PROJECT.

ENERTITE G

OC SPF PRODUCT	ENERTITE G
PASS THICKNESS (inch)	½ - 6
YIELD (board feet per set)	17,000- 21,000
SUBSTRATE TEMP (Use cold method flash passes)	
Wood	20°F & warming
Metal/concrete	30°F & warming
PROCESSING TEMPS A/B Heaters & Hose Heat	
(Adjust in +/- 5° increments)	
Colder Climates	125-135°F
Warmer Climates	105-125°F
PROPORTIONER SET PRESSURE (Spraying Pressure)	
Colder Climate	Static: 1150-1450 psi
Warmer Climate	Dynamic: 900-1200 psi
SPEEDS (Ambient temp. range)	One speed (20-120°F)
RESIN SHELF LIFE	6 MONTHS
ISO SHELF LIFE	12 MONTHS

BASF Product	Reentry @ 20 ACH*	Reentry with minimal ventilation	Reoccupancy
Enertite G	2 hours	4 hours	24 hours

*Ventilation rates based upon ventilation used DURING the time of application and for the timeframe listed.

ENERTITE G PREPARATION AND APPLICATION TIPS

- Material temperature (in the drum) should be approximately 70°F. Heating and recirculation are not required if the material is 70°F or higher. If the material is below the recommended temperature:
 - Use heating mechanisms such as heating blanket or space heaters
 - or-
 - Set the heater blocks for A & B to 80°F and heat/ recirculate material through the proportioner.
- Equipment temperature settings should be 105-135°F:
 - Set temperatures higher during winter and lower during summer
 - ENERTITE G drips when cold
 - ENERTITE G may collapse slightly or shrink back when processed too hot
- Hose heat is an extremely important part of the system:
 - Ensure that the hose wrap/insulation is intact, including the whip section.
 - If the Fluid Temperature Sensor (FTS) is not near the gun or remains coiled in the rig, the hose heater circuit may not be initiated (causing a false temperature reading).
 - If the hose heat is using "resistance mode," then seasonal calibration is recommended to help with more accurate temperature reading.
- The rate of foam expansion (reaction time) is dependent on processing temperature. If the foam seems hard to control or it is difficult to "keep up with the wave", consider lowering the heater settings.
- Increasing pressure can cause spraying into rising foam which may lead to trapped odors or blow back.
- Application technique plays a crucial part in maximizing yield:
 - Fine tuning spray distance, speed, and overlap may improve yield
 - Ideally, apply foam in each cavity in a single lift (6-inch max). This allows the chemical reaction heat to expand the cells thus maximizing expansion.
 - If multiple thin passes or touch-ups are applied, the finished cut surface and yield may be affected.
 - Picture framing or using a wide side-to-side motion ("wetting the frame") allows the liquid spray to contact all surfaces, therefore, promoting strong adhesion and minimizing gaps that require touch-ups.

Refer to Application Guidelines for more details.

TECHNICAL ASSISTANCE

For more detailed information, contact Inside Technical Sales at Toll-Free: 1-800-706-0712, Option 2 (CST) Email: spf.techsales@basf.com
 Technical data sheets: <http://www.spf.basf.com/TDS-SDS-INFO.php>

ENERTITE® is a registered trademark of BASF Corporation.

BASF Spray Foam APP available for download:



ENERTITE® SERIES OCSF QUICK REFERENCE GUIDE

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ENERTITE MAX

OC SPF PRODUCT	ENERTITE MAX
PASS THICKNESS (inch)	½ - 6
YIELD (board feet per set)	19,000- 23,000
SUBSTRATE TEMP (Use cold method flash passes)	
Wood	45°F & warming
Metal/concrete	45°F & warming
PROCESSING TEMPERATURE RECOMMENDATIONS A/B Heaters & Hose Heat (Adjust in +/- 5° increments)	
Colder Climates	125°F – 140°F
Warmer Climates	110°F – 125°F
PROPORTIONER PRESSURE RECOMMENDATIONS	
Colder Climate	Static: 1150 – 1450 psi
Warmer Climate	Dynamic: 900 – 1200 psi
Reactivity/Speed (Ambient temp. range)	One Reactivity/Speed (45 °F to 120°F)
RESIN SHELF LIFE	6 Months
ISO SHELF LIFE	12 Months

BASF Product	Reentry @ 20 ACH*	Reentry with minimal ventilation	Reoccupancy
Enertite MAX	2 hours	4 hours	24 hours
*Ventilation rates based upon ventilation used DURING the time of application and for the timeframe listed.			
ISO Drum Preparation Instructions			
No mixing required. Keep drum >65°F during application.			
ENERTITE MAX Resin Drum Preparation Instructions:			
Step 1: Mix for 20-30 minutes prior to spraying.			
Step 2a: If resin drum is >70°F, no recirculation/blanket heating necessary.			
Step 2b: If resin drum is <70°F, recirculate/blanket heat until resin drum is >65°F.			
Step 3: Mix continuously during application.			
Note: Keep the drum mixing throughout its lifetime. If you need to stop mixing for an extended period (e.g., greater than 30 minutes), then repeat steps 1-3 above, and spray off-target with your hose for 30 seconds.			
Before spraying the product, the resin material in the drum MUST be mixed for a minimum of 20 minutes. The resin material MUST also be mixed continuously during processing of the product during application. The following guidance is also provided:			
<ul style="list-style-type: none"> • An agitator (mixer) with collapsible blades (3 sets) should be used. • The mixer speed should be 500rpm. • The bottom blade should be about 1-2 inches off the bottom of the drum with the middle blade positioned 10 inches above the bottom set of blades and the top set of blades positioned 10 inches above the middle set of blades. • If mixing is stopped for extended periods of time (>30minutes), then mix for 20 minutes again then spray off-target for 30 seconds before spraying product onto substrate. 			
The product does not have to be recirculated or heated as long as the material in the drum is at 70°F for processing. If the material is colder than 70°F, the material in the drum must be warmed up, using the following guidance:			
<ul style="list-style-type: none"> • Blanket heaters or space heaters in the rig is proper way to warm material up. • The proportioner heaters may be used to warm material up with the heater blocks (A & B) set to about 80°F and the material recirculated back into the drums. • Before heating through proportioner heaters, be sure to mix the resin product for 20 minutes before recirculating the material. 			

ENERTITE MAX PROCESSING INSTRUCTIONS

The following equipment settings are recommended:

- Hose heat and primary heater temperature of 115°F-130 °F in colder climates and 110 °F-120°F in warmer climates
- Proportioner set (static) pressure of 1150-1450 psi for a dispensing (dynamic) pressure 900 – 1200 psi in all climates.
- Start with a hose and primary heater heat setting of 120°F and a dispensing (dynamic) pressure of 1000 psi. Make adjustments to those settings in small increments (+/- 5°F, +/- 100 psi).
- The optimum temperature may vary with the type of equipment used, the particular application conditions, and the climate zone. For more information on equipment consult the [Spray Polyurethane Foam Alliance \(SPFA\) technical document AY-137](#).
- BASF's SPF systems are formulated to produce foam with physical properties representative of our published data sheets within the factory set tolerances of commercially available fixed ratio proportioner units.

Refer to Application Guidelines for more details.

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ENERTITE X

OC SPF PRODUCT	ENERTITE X
PASS THICKNESS (inch)	½ - 6
YIELD (board feet per set)	14,000 – 17,000
SUBSTRATE TEMP (Use cold method flash passes)	
Wood	45°F & warming
Metal/concrete	45°F & warming
PROCESSING TEMPERATURE RECOMMENDATIONS A/B Heaters & Hose Heat (adjust in ± 3° increments)	
Colder Climates	140°F – 150°F
Warmer Climates	125°F – 150°F
PROPORTIONER PRESSURE RECOMMENDATIONS	
Colder Climate	Static: 1150 – 1500 psi Dynamic: 900 – 1300 psi
Warmer Climate	
Reactivity/Speed (Ambient temp. range)	One Reactivity/Speed (45 °F to 120°F)
RESIN SHELF LIFE	6 Months
ISO SHELF LIFE	12 Months

BASF Product	Reentry @ 20 ACH*	Reentry with minimal ventilation	Reoccupancy
Enertite MAX	2 hours	4 hours	24 hours
*Ventilation rates based upon ventilation used DURING the time of application and for the timeframe listed.			
ISO Drum Preparation Instructions			
No mixing required. Keep drum >65°F during application.			
Resin Mixing, Heating and Recirculation Instructions:			
STEP 1: Mix the resin drum for 10 - 15 minutes.			
STEP 2: Minimum resin temperature of 85 - 95° F prior to spraying			
a. If resin drum is <85° F, recirculate/blanket heat until resin material is between 85 - 95° F			
b. If resin drum is ≥85° F, no recirculation or blanket heating is necessary.			
STEP 3: Maintain medium speed mixing of resin throughout application process.			
a. When mixing is halted for more than 30-minutes, then repeat STEPS 1 - 3 and spray off-target for 30-seconds before proceeding to install SPF.			
b. Material may separate in the hose if left unattended for extended period without pressure and temperature.			
a. Repeat Steps 1 - 3			
b. Spray off-target unwanted product or bleed material back into drum until the line is filled with homogenous resin mix.			
DO NOT MIX ENERTITE X WITH ANY OTHER PRODUCTS			

ENERTITE X PROCESSING INSTRUCTIONS

The following equipment settings are recommended:

- Hose heat and primary heater temperature of 140°F-150 °F in colder climates and 125 °F-150°F in warmer climates
- Proportioner set (static) pressure of 1150-1500 psi for a dispensing (dynamic) pressure 900 – 1300 psi in all climates.
- Start with a hose and primary heater heat setting of 120°F and a dispensing (dynamic) pressure of 1000 psi. Adjust temperature and pressure settings in small increments such as ± 3°F, ± 100 psi.
- The optimum temperature may vary with the type of equipment used, the application conditions, and the climate zone. For more information on equipment consult the [Spray Polyurethane Foam Alliance \(SPFA\) technical document AY-137](#).
- BASF's SPF systems are formulated to produce foam with physical properties representative of our published data sheets within the factory set tolerances of commercially available fixed ratio proportioner units.

OPTIMIZED ENERTITE X APPLICATION RECOMMENDATIONS

- 52/52 chamber size recommended.
- Picture-frame technique with side-to-side cavity fill.

Refer to Application Guidelines for more details.

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Warning: These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.

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