



Data Sheet

BI-AEP-DS 2-15

# ECOSEAL+™

WATER-BASED ELASTOMERIC SEALANT

A Component of the Knauf Insulation **ECOSEAL+** System

# ECOSEAL Plus™ Water-Based Elastomeric Sealant

## Description

Knauf Insulation ECOSEAL Plus™, now with Gasket Pro Technology, is a fast drying, water-based elastomeric spray that seals penetrations and joints in the building envelope, as well as provides a gasket between studs and drywall. ECOSEAL Plus™ dries to a flexible tough film and has great bond strength with low odor and zero V.O.C. ECOSEAL Plus™ should be used with Knauf Insulation EcoBatt® Insulation or Knauf Insulation Premium Blowing Insulation. Together, they form the ECOSEAL Plus™ System—a high performance, continuous and affordable air and thermal barrier for the building envelope.

## Kit Description

ECOSEAL Plus™ was engineered to utilize commonly available airless spray equipment. This helps keep costs low and allows easy maintenance. Knauf Insulation has collected all the components in a convenient kit that contractors will need to start sealing immediately. These components include a GRACO Ultra Max 795 Airless Sprayer with 50 feet of hose, a 6 foot whip hose, spray gun, two nozzle extensions, tip guard and two spray tips. Also included is a hose reel, a digital display and an adapter/plug to enable the usage of two hoses simultaneously. Replacement parts and other accessories can be purchased at most paint supply stores.

## Application

Knauf Insulation ECOSEAL Plus™ is applied directly from the bucket, with no thinning or mixing. Using an airless sprayer, typical drying time allows

the installation of EcoBatt Insulation or Knauf Insulation Premium Blowing Insulation in just a few hours, in most cases. Once cured, it remains flexible over a wide range of temperatures. ECOSEAL Plus™ is designed to be installed by trained applicators. For training, go to [ecosealplus.knaufinsulation.us](http://ecosealplus.knaufinsulation.us).

## Features and Benefits

### Top plate gasket

- ECOSEAL Plus™ with Gasket Pro Technology meets need for top plate gasketing.
- ECOSEAL Plus™ is durable and cannot be damaged during drywall installation ensuring the air seal stays in tact after visual inspection.

### Affordable performance

- ECOSEAL Plus™ sealant combined with EcoBatt Insulation or Knauf Insulation Premium Blowing Wool is a lower cost, more sustainable alternative to foam insulation while delivering equal or superior performance characteristics.

### Total envelope solution

- Delivers air flow resistance to the whole structure, not just the cavities.
- Seals areas traditional spray foams cannot.

### Trade-friendly, no schedule delays

- Unlike many foams, ECOSEAL Plus™ does not involve mixing hazardous chemicals at the jobsite, nor does it generate hazardous off-gassing during cure. Therefore, ECOSEAL Plus™ is safe to spray and dries quickly—so

other trades stay on site and on schedule.

## Significant acoustical benefits

- ECOSEAL Plus™, when used in combination with Knauf Insulation EcoBatt Insulation or Knauf Insulation Premium Blowing Insulation (ECOSEAL Plus™ System), provides superior acoustical performance.

## ECOSEAL Plus™ fills the gaps

- ECOSEAL Plus™ penetrates gaps as small as 1/8". It coats the face of gaps smaller than this, like the joint of double plate. Sealing gaps larger than 3/8" should be backfilled prior to sealing with ECOSEAL Plus™.

## Few temperature limitations for storage and application

- It should be stored in a dry location with a temperature above 50°F.
- Can be applied from 20° to 125°F, as long as the sealant is fluid in the bucket (a portable heater may be necessary in cold conditions).

## Easy cleanup

- ECOSEAL Plus™ cleans up with water; no chemical solvents required.

## Specification Compliance

- Meets or exceeds all state and federal VOC requirements for architectural sealants.
- VOC: 0



Components of the ECOSEAL Plus™ System: ECOSEAL Plus™ Elastomeric Spray Sealant and sprayer, EcoBatt® Insulation and Jet Stream® Ultra Premium Blowing Insulation.

## Technical Specifications

### Shelf Life

- 18 months in unopened containers.

### Coverage Rate

- Approximately 2400 linear feet per bucket when applied at a ¼" bead.

### Temperature Limits

- Application: 20°F to 125°F
- Storage: 50°F to 120°F

Buckets should not be stored directly on cold concrete floors. Portable jobsite heaters are recommended when ambient temperature falls below 40°F.

Note: Protect from freezing. If frozen, completely thaw prior to use. Material must be allowed to thaw completely and be above freezing when sprayed. Once completely thawed, stir bucket for 60 seconds prior to spraying. Passes five freeze-thaw cycles.

### Surface Burning Characteristics

- Does not exceed 25 Flame Spread, 50 Smoke
- Developed when tested in accordance with ASTM E 84.

### Sound Transmission (Acoustics)

- In comparative testing per ASTM E90, ECOSEAL Plus™ provided a significant sound transmission reduction (10 dB) versus unsealed walls. For more information, comparing ECOSEAL Plus™ to alternative treatments, see [ecosealplus.knaufinsulation.us](http://ecosealplus.knaufinsulation.us).

### Weight

- Approximately 27 lbs. (12.3 kg.)

### Microbial Growth

- Does not support microbial growth.
- Excellent resistance to mold and mildew.

### Color

- Blue

### Packaging

Knauf Insulation ECOSEAL Plus™ sealant is packaged in a 5 gallon pail. It ships 36 pails per pallet and 12 pails per pallet.

### Installation of the ECOSEAL Plus™ System

While the ECOSEAL Plus™ System is relatively simple, Knauf Insulation offers training online at [ecosealplus.knaufinsulation.us](http://ecosealplus.knaufinsulation.us) to ensure installers understand all of the important details necessary to achieve optimal performance. An Application Guideline Manual is also available online or in hard copy form. In addition, further training can be arranged through your Knauf Insulation sales representative. Knauf Insulation recommends that ECOSEAL Plus™ qualified installers be used wherever available.

### Notes

The chemical and physical properties of Knauf Insulation ECOSEAL Plus™ sealant represent typical average values determined in accordance with accepted test methods. The data is supplied as technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.



*ECOSEAL Plus™ and the ECOSEAL Plus™ System create an energy efficient envelope, addressing thermal performance and air infiltration at a very competitive cost.*



*ECOSEAL Plus™ spray sealant should be sprayed on all joints, gaps and seams prior to insulation.*



*ECOSEAL Plus™ can be applied to the top plate to form a drywall gasket.*



*ECOSEAL Plus™ dries in a few hours, making it possible to insulate the same day as application.*

For more information call (800) 825-4434, ext. 8300

or visit us online at [www.knaufinsulation.us](http://www.knaufinsulation.us)



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Use of this product may help building projects meet green building standards as set by the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.

#### **LEED v2009**

MR Credit 4.1 - 4.2 Recycled Content  
MR Credit 5.1 - 5.2 Regional Materials

#### **LEED v4**

Knauf Insulation offers several products for both envelope and mechanical systems that have ingredient disclosure and transparency. Please contact [transparency@knaufinsulation.com](mailto:transparency@knaufinsulation.com) for products that currently contribute to MR credits.