



Data Sheet

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ECOSEAL®

WATER-BASED ELASTOMERIC SEALANT

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

EcoSeal® Water-Based Elastomeric Sealant

Description

Knauf Insulation EcoSeal®, the latest technology in home energy solutions, is a fast drying, water-based elastomeric spray that seals penetrations and joints in the building envelope, including exterior walls, attics and floors. EcoSeal dries to a flexible tough film and has great bond strength with low odor and is extremely low in V.O.C.'s. EcoSeal should be used with Knauf Insulation EcoBatts® or Knauf Insulation Premium Blowing Insulation. Together, they form the EcoSeal System—a high performance, continuous and affordable air and thermal barrier for the building envelope.

Kit Description

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 is applied directly from the bucket, with no thinning or mixing. Using an airless sprayer, EcoSeal's short curing 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 is designed to be installed by trained applicators. For training, go to www.knaufinsulation.us.

Features and Benefits

Affordable performance

- EcoSeal 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 does not involve mixing hazardous chemicals at the jobsite, nor does it generate hazardous off-gassing during cure. Therefore, EcoSeal is safe to spray and dries quickly—so other trades stay on site and on schedule.

Significant acoustical benefits

- EcoSeal, when used in combination with Knauf Insulation EcoBatts or Knauf Insulation Premium Blowing Insulation (EcoSeal System), provides superior acoustical performance.

EcoSeal fills the gaps

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

Few temperature limitations for storage and application

- It should be stored in a dry location with a temperature between 40° and 120°F.
- Can be applied from 20° to 115°F, as long as the sealant is fluid in the bucket (a portable heater may be necessary in below freezing conditions).

Easy cleanup

- EcoSeal cleans up with water; no chemical solvents required.

Indoor air quality

- Certified for indoor air quality as a low emitting product by The GREENGUARD Environmental Institute to both the GREENGUARD Indoor Air Quality Certification ProgramSM and the more stringent GREENGUARD Children & Schools standard and is verified to be formaldehyde free.

Specification Compliance

- Meets or exceeds all state and federal VOC requirements for architectural sealants.
- VOCs: <0.3 grams/liter (less water, less exempt compounds-calculated).
- GREENGUARD Indoor Air Quality Certified[®]
- GREENGUARD Children & Schools CertifiedSM and is verified to be formaldehyde free.



Components of the EcoSeal® System: EcoSeal® 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 3000 linear feet per bucket when applied at a ¼" bead.

Temperature Limits

- Application: 20°F to 115°F
Storage: 40°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. Do not attempt thawing by mixing, stirring, blending or agitating. Material must be allowed to thaw completely and be above freezing when sprayed. 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, UL 723 and CAN/ULC S102-M88.

Sound Transmission (Acoustics)

- In comparative testing per ASTM E90, EcoSeal provided a significant sound transmission reduction (10 dB) versus unsealed walls. For more information, comparing EcoSeal to alternative treatments, see www.knaufinsulation.us.

Weight

- Approximately 60 lbs. (27 kg.)

Microbial Growth

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

Color

- Blue

Packaging

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

Installation of the EcoSeal System

While the EcoSeal System is relatively simple, Knauf Insulation offers training online at www.knaufinsulation.us to ensure installers understand all of the important details necessary to achieve optimal performance. An Application Guide-line 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 qualified installers be used wherever available.

Notes

The chemical and physical properties of Knauf Insulation EcoSeal 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.

Check with your Knauf Insulation sales representative to assure information is current.



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



EcoSeal spray sealant should be sprayed on all joints, gaps and seams prior to insulation.



EcoSeal also coats the face of gaps smaller than 1/8", like the joint of double plates, shown, effectively sealing the joint.



EcoSeal 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



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LEED Eligible Product

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.

Credit 4.1 - 4.2 Recycled Content

Credit 5.1 - 5.2 Regional Materials



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