KNAUF INSULATION
it's time to save energy

Data Sheet | BI-DS-08 08-10

ECOSEAL™

WATER-BASED ELASTOMERIC SEALANT

*A Component of the Knauf Insulation & Sealing System**

*EcoSeal™ sealant should be used with Knauf EcoBatt® Insulation or Knauf Premium Blowing Insulation

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 Premium Blowing Insulation. Together, they are known as the KISS™ System (Knauf Insulation & Sealing System). The KISS system forms an effective, 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 simutaneously. 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 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 Premium Blowing Insulation 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 Premium Blowing Insulation (KISS 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 appllication.

- It should be stored in a dry location with a temperature between 35° and 120°F.
- Can be applied from 20° to 115°F, as long as the sealant is fluid in the bucket.

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 Certification Program™ and the more stringent GREENGUARD Children and Schools℠ standard.

*Components of the **KISS**™ System: EcoSeal™ Elastomeric Spray Sealant and sprayer, EcoBatt® insulation and Jet Stream® Ultra Premium Blowing Insulation.*

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™ Certified
- GREENGUARD for Children and Schools℠ Certified

Technical Specifications

Shelf Life

- 18 months in unopened contatiners.

Coverage Rate

- Approximately 2000 linear feet per bucket when applied at a ¼" bead.

Temperature Limits

- Application 20°F to 150°F
  Storage: 35°F to 120°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.**

Cleanup

- Use water and soap. Cured materials need to be mechanically removed. EcoSeal disposal should be treated the same as disposal of latex paint. Clean buckets are recyclable.

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.

Installation of the KISS™ System

While the KISS™ 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 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 contractors with KISS certification training 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 KISS *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 horizontal 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

KNAUF INSULATION
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Credit 5.1 - 5.2 Regional Materials

Children & Schools GREENGUARD® Indoor Air Quality Certified

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