



1126 KEL-SEAL

Urethane Fortified Acrylic Sealant

Product Description

Kel-Seal Urethane Fortified Clear Acrylic Sealant is a revolutionary, space-age waterborne sealant which has been designed to compete with silicone rubber and solvent borne one component urethanes. Kel-Seal Urethane Fortified Clear Acrylic Sealant can be used to positively seal a variety of joint openings, such as selective expansion and control joints, exterior hardboard lap siding, butt joints and many other applications. In addition, because of its tenacious adhesion and flexibility, it can be recommended as a radon gas infiltration barrier sealant.

Performance Features:

- 60 Year Durability
- Very Easy to Apply and Tool
- Non-flammable
- Neutral Odor
- UV Stabilized to Guard Against Premature Yellowing
- Can be Painted Over if Desired
- Soap and Water Clean Up

Special Instructions

- Do not use below grade or under water.
- Application should be when air and surface temperatures are 50° F (10°C) or above in a 24 hour period.
- If rain or threatening weather is expected within 8 hours, delay application until dry conditions exist.
- Allow 'new' concrete to cure for 30 days before any application of 1126 Kel-Seal Sealant. Do not apply if pH is above 10.
- Do not apply when relative humidity is above 90%.
- Not for food contact surfaces.
- Not to be used on stove pipes or fireplaces.
- Never mix with other materials.
- Avoid using mineral spirits to clean equipment.
- Allow sealant to cure for a period of 21 days before assessing the overall performance.

Surface Preparation

WARNING! If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to www.epa.gov/lead

All surfaces must be firm and free of oil, grease, efflorescence, mildew and loose material. Unsound masonry must be wire brushed or blasted for a firm surface. Dirt, loose contaminants and chalk are best removed by high-pressure chemical and water blasting. Any chalk or porous coating not removed by pressure washing must first be sealed with a suitable Kelly-Moore surface conditioner. To remove mildew, scrub with a solution of 3 heaping teaspoons of trisodium phosphate (TSP), 1 quart of hypochlorite household bleach and 3 quarts warm water. (WEAR PROTECTIVE GOGGLES AND WATERPROOF GLOVES) Rinse thoroughly and allow to dry. Non-structural shrinkage cracks (larger than 1/16" wide) and non-structural movement cracks (larger than 1/16" up to 1/4") must be treated and repaired accordingly.

Special Notice: For optimum performance, the moisture content of hardboard siding and other timber derived surfaces should be pre-checked to ensure it falls within the manufacturer's moisture content specifications prior to assembly. Pre-primed hardboard should be lightly sanded with a fine grade paper to aid in removing any unwanted surface blocking additives which could interfere with the ultimate adhesion of this sealant.

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Application:

Expansion and Control Joints: Expansion and control joints are engineered into buildings to compensate for anticipated movement. They allow segments of the structure to move independently of each other while retaining the integrity of the structure. For this reason, only sealants which have good expansion and contraction capabilities should be used.

Joint Design: The design of the joint depends upon a variety of factors, such as maximum expansion and contraction of the surface materials due to thermal change. When possible, Kel-Seal Urethane Fortified Acrylic Sealant should be applied when the joint is at its median opening to obtain the greatest efficiency with ongoing joint movement.

Service Conditions: The dimensions of the joint to be sealed must be established in relation to service conditions. The number of joints and joint width should be designed not to exceed $\pm 25\%$ maximum movement.

Backing Materials: In deep joints, sealant depth should be controlled with a closed cell 'non-gassing' type backer-rod. Other caulks should not be used as fillers. Backer-rods should not be primed. Care should be taken to insure backer-rod is not punctured. When the depth of a joint does not permit the use of a backer-rod, a bond breaker (polyethylene strip) must be used to prevent three-point adhesion.

Joint Size: If it is determined that a joint will open and close $3/16''$ between temperature extremes, the joint width should be 4 times the $3/16''$, or $3/4''$ minimum. The depth of the sealant should be $1/2$ the width of the joint, with a maximum depth of $1/2''$, and a minimum of $3/16''$. Minimum joint width should also be $3/16''$.

Sealant Depth: To maintain recommended sealant depth, backer-rod is installed by compressing and rolling into joint channel without stretching lengthwise. Backer-rod should be about $1/8''$ larger in diameter than the width of the joint to allow for compression. The foam becomes an integral part of the joint, since sealant does not adhere, and no separate bond breaker is required.

USAGE RATE: The following values represent a working guide for calculating the linear feet per cartridge of sealant needed to fill a cavity of a given size:

<u>Cavity Depth & Width</u>	<u>Linear Feet/Cartridge</u>
$3/16'' \times 3/16''$	45
$1/4'' \times 1/4''$	25
$1/4'' \times 1/2''$	12
$3/8'' \times 1/2''$	8
$1/2'' \times 1/2''$	6

DRYING: May be painted with latex or elastomeric paint when dry (generally within 4 to 6 hours depending on climatic conditions and bead size). It may be desirable to paint expansion joints which have been filled with 1126 Kel-Seal Sealant from time to time. It is recommended that only premium quality coatings with elastomeric properties be used. Substantial elongation will be taking place in the joint. A coating without the capability to elongate will most likely crack, causing what is known as an alligatoring effect. Although the waterproofing capabilities of the system will not be affected, it will detract from the appearance of the structure.

COLOR: White

CLEAN UP: Wash all equipment with warm detergent solution and rinse thoroughly with clear water.

PACKAGING: 10.1oz. Plastic Cartridge.

GUARANTEE: Kelly-Moore guarantees the replacement of material if proven faulty. Container and proof of purchase must be provided for replacement. All damages, including consequential damage or any remedies are excluded.

CAUTION:

Do not take internally.

Close container after use. Keep from freezing.

KEEP OUT OF REACH OF CHILDREN.

See Technical Data next page

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<u>PHYSICAL OR PERFORMANCE PROPERTY</u>	<u>TEST METHOD</u>	<u>RESULT</u>
Weight per Gallon	Lab Value	11.3 ± 0.2 lbs
% Solids by Weight	Lab Value	76.3% Minimum
% Solids by Volume	Lab Value	69.9% Minimum
Viscosity: in seconds 77°F	Semco: 1/8" Orifice	7.5/Quantity: 6 Fl. Oz.
Rheological Characteristics		Thixotropic
Consistency	Observation	Smooth: caulk-like
pH (When Packaged)	Lab Value	8.1 ± 0.2
Odor	Subjective	Slight Ammoniacal
Vehicle Type		Acrylic Urethane
Volatile Portion (Exempt)		Water
Volatile Portion (Non-Exempt)		Glycol Ether / Aromatic Solvent
Flash Point	Non-applicable	Non-flammable-Waterborne
VOC Content	Calculated	51.3 g/L (0.45 lbs/gal)
Freeze/Thaw Stability	Lab Value	Passes 5 Cycles
Shelf Life	Lab Value	2 year minimum
Slump	ASTM D-2202	0
Crack Resistance (5/8" X 5/8")	Wood Channel	Pass (Unpainted)
Flexibility at -15°F (1/4" slab on aluminum)	1" Mandrel	Pass (after 1 week cure @ 122°F)
Tack free time in hours	ASTM D-2377	1 hour @ 80°F/RH 65%
Durometer Hardness, Shore A	ASTM D-2240	30 ± 5
Aymar Durability, Class B	ASTM C-719	
Glass	(Meets performance	Pass
Aluminum	requirements of Fed. Spec.	Pass
Concrete	TT-S-00230C Type II, Class A)	Pass
Service Temperature Range		-30°F – 180°F (-34°C - 82°C)

Limited Warranty: The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.