

# FLEX-SEAL UTILITY SEALANT<sup>®</sup> Installation Instructions

This product must be applied at temperatures above 45°F. Openings or gaps larger than 3/8 inch should be filled with backer rod, low expansion spray foam insulation, foam weather striping or a quick set cement. All hydrostatic leaks must be stopped with an appropriate water stop material. A hydraulic cement or "Chimney Patch Repair" distributed by Sealing Systems, Inc. is recommended. If using cementitious materials for rehabilitation contact the manufacturer for the proper preparation required to bond urethanes to their material and the amount of time required for the cement to completely cure. **Flex-Seal Utility Sealant will not bond properly to uncured cement.** If coating PVC, fiberglass or epoxy, the surface must be abraded with 40 grit sand paper and coated with "NHNS" to ensure **proper adhesion** prior to the application of the primer. "NHNS" is a preparation material distributed by Sealing Systems, Inc.



**1** Caution should be taken due to the explosive gases commonly associated with sanitary sewer systems. LEL (lower explosive limits) should be checked prior to sandblasting due to the static electricity created by sandblasting. A debris dam shall be installed to catch spent sand and fallen material. Using a sandblaster (minimum 70 CFM), thoroughly clean the entire area to be coated plus an inch or more above and below the intended top coat area. Remove any bituminous coatings, painted coatings, loose debris, laitances, dust, dirt, oil, grease, chemical contamination, or rust scale build-up on the metal and other surfaces. This procedure **MUST** be followed to ensure Flex-Seal Utility Sealant bonds to the structure (cleaning equipment needed will depend upon the contaminants on the surface and/or the type of substrate). We recommend dust free silica sand for sandblasting.



**2** After sandblasting, blast the surface with clean air to remove any loose sand that may have been deposited onto the surface. The substrate surface **MUST** be dry and be free of loose sand.



**3** When air blasting is finished, an acetone wet wipe of the entire surface to be coated is recommended. This is to get a mechanical wipe of the surface, a wet wipe of the surface and a high flash point wipe of cementitious portion of the surface to evaporate any surface moisture in the non metallic portion of the chimney area to be coated with Flex-Seal Utility Sealant.

Equipment suggested: quick set cement, low expansion spray foam insulation, acetone, hammer, chisel, 2500 RPM drill, mixer accessory, wire brush, sandblasting equipment, goggles, screw driver, mixing stick and OSHA approved breathing apparatus for confined areas or when spraying material.



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Locate the 16 oz. container, the primer and the 1 oz. container of the catalyst. Thoroughly mix the two products together in the 16 oz. container. The primer **MUST** be applied to a **DRY** surface, and only to the prepared surface area. Using the brush provided, apply the primer directly from the 16 oz container.

**GRADE ADJUSTMENT RING APPLICATION** – apply a thin layer of primer 2 inches above the bottom of the frame and the entire adjustment ring area to 2 inches below the bottom ring.

**JOINT SEALING APPLICATION** –apply a thin layer of primer 3 inches above the joint and 3 inches below the joint.



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The primer will become tacky (sticky but no longer transfers when touched) within 30 to 60 minutes (curing time depends on temperature) The Flex-Seal Utility Sealant **MUST** be applied within 3 hours after the primer becomes tacky.

(NOTE: after 3-hours re-activate the primer with NHNS). Shake the ½ gallon container of the Flex-Seal Utility Sealant Part "A" and then pour it into the 1-1/2 Gallon white pail provided in the kit. Then add the thickening agent part "B" (material in the plastic bag).



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Use a power drill of at least 2500 RPM'S with a paint mixer attachment to mix A & B together. Blend the Flex-Seal Utility Sealant mixture using the drill-mixer with an up, down and around movement. This will ensure a thorough air entrained mixture. **IT IS VERY IMPORTANT TO MIX A & B TOGETHER THOROUGHLY.** A uniform blue color is required. After mixing the A & B materials it may be necessary to wait a few minutes for the mixture to reach its desired consistency.



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Using the brush provided, apply the Flex-Seal Utility Sealant over the primer. Apply it as evenly as possible over the entire surface. Be sure to fill all gaps with the Flex-Seal Utility Sealant. It is important **NOT** to apply the Flex-Seal Utility Sealant to any unprimed area! The average pot life of the Flex-Seal Utility Sealant is 20 minutes. Flex-Seal Utility Sealant will cure to its ultimate strength in approximately 30 days. Do not perform any adhesive or vacuum testing until after the 30 day cure time.

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**WARNING !!** DO NOT GET ANY MATERIAL IN EYES, ON SKIN OR CLOTHING. DO NOT TAKE INTERNALLY. CONTAINS TOLUENE DIISOCYANATE. VAPORS MAY CAUSE RESPIRATORY IRRITATION AND SENSITIZATION. LIQUID MAY CAUSE EYE DAMAGE. MAY IRRITATE SKIN.