

# FLEX-SEAL UTILITY SEALANT® Installation Instructions



**1** This product must be applied at temperatures above 45°F. Using a 3500 PSI pressure washer with a sandblaster attachment or a sandblaster, thoroughly clean the entire area to be coated. Remove any bituminous coatings, painted coatings, 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.) If using cementitious materials for rehabilitation, you **MUST** contact the manufacturer for the curing time allowances and preparation requirements.



**2** After the water sandblasting or sandblasting, pressure wash the entire area to remove any loose sand that may have been deposited onto the surface. The substrate surface **MUST** be free of sand, loose debris, laitances, dust, dirt, oil, grease, or chemical contamination.

All hydrostatic leaks must be stopped with an appropriate water stop material. A hydraulic cement or “quick seal repair” is available from Sealing Systems, Inc. and is recommended.



**3** A blower is recommended to **COMPLETELY DRY** the surface. A propane torch may be used, provided you use the proper safety precautions. **Caution should be taken due to the explosive gases commonly associated with sanitary sewer systems.** Openings or gaps larger than 1/2 inch should be patched with backer rod, spray foam insulation, foam weather stripping, or a quick set cement. When using a quick set cement or cementitious material, you must contact the manufacturer to determine the time required for the cement to completely cure. We have found that most quick set materials require a minimum of 7 days to cure. **Flex-Seal Utility Sealant will not bond properly to uncured cement.**



**4** Locate the 16 oz. container of primer and the 1 oz. package of catalyst. Thoroughly mix the two products together in the primer container.

If coating PVC, fiberglass or epoxy prior to the application of the primer, the surface must be abraded with 40 grit sandpaper and coated with “NHNS” to ensure **PROPER ADHESION**. “NHNS” is a preparation material manufactured by Sealing Systems, Inc.

*Equipment suggested: quick set cement, spray foam insulation, hammer, chisel, 1200 RPM drill, mixer accessory, whisk broom, wire brush, sandblasting equipment, pressure washer, goggles, screwdriver, mixing stick, OSHA approved breathing apparatus in confined areas or when spraying material.*



**5** The primer **MUST** be applied to a **DRY** surface. Using the brush provided, apply the primer directly from the 16 oz. container.

**GRADE ADJUSTMENT RING APPLICATION** - Apply a thin layer of primer from 3 inches above the bottom of the frame over the entire adjustment ring area to 3 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.



**6** The primer will become tacky 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 1/2 gallon container of 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 32 oz. plastic bag).



**7** Use a power drill of at least 1200 or more RPM with a paint mixer attachment and mix parts A and 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 intrained mixture. **IT IS VERY IMPORTANT TO MIX A & B TOGETHER VERY WELL.** After mixing the A and B materials, it may be necessary to wait a few minutes for the mixture to reach its desired consistency.



**8** Using the brush provided, apply the blended mixture onto the primed area leaving a 1" edge at the top and bottom of primed area exposed; do not cover this 1" area with the blended mixture. Apply the blended mixture as evenly as possible over the primed surface filling all gaps with the material, making sure to leave a 1" band at the top and bottom of the primed area free of the blended mixture. The pot life of the blended mixture is 15-60 minutes, depending on the temperature. At 75°F the Flex-Seal mixture will cure to be tack free in approximately 4 hours. It will continue to cure to its ultimate strength in approximately 30 days. Do not perform any adhesive or burst testing until after the 30 day cure time.

**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.**



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