

**SEALITE OCX SPRAY FOAM SYSTEM (12-005)**

**DESCRIPTION:**

Sealite™ OCX is a two component, one-to-one by volume, low density open cell polyurethane spray foam system. The foam is a self-adhering, seamless, sealant/air barrier insulation membrane. Sealite™ OCX has been formulated with water as the blowing agent and does not contain CFC, HCFC, HFC or formaldehyde. Sealite™ OCX is approved for use in Type V-B construction. Sealite™ OCX is approved for application in restricted access attic spaces with no additional ignition barrier covering.

**DISTINGUISHING CHARACTERISTICS:**

- High Yields
- Outstanding Dimensional Stability
- Excellent Air Barrier
- Good Sound Barrier
- Meets ASTM E-84, FS ≤ 25, SD ≤ 450 @ 4"
- Passed AC 377 Appendix X w/o ignition barrier
- Eliminates Convective Air Movements inside the building assemblies

For proper use of this NCFI insulating material refer to the NCFI Application Information and any of the following codes or guides:

- International Building Code, Section 2603
- International Residential Code, Section R316
- API Fire Safety Guidelines for Use of Rigid Polyurethane and Polyisocyanurate Foam Insulation in Building Construction (AX230)

**Installation Limitations**

Sealite™ OCX may be installed to any desired thickness when separated from the interior of the building by code prescribed 15 minute thermal barrier. Sealite™ OCX is approved up to 11" thickness (R 39) on the walls and ceilings in unvented attics and in crawlspaces with no additional ignition barrier covering.

**TYPICAL PHYSICAL PROPERTIES:**

Core Density - ASTM C 1622	0.5 pcf
Moisture Vapor Transmission - ASTM E 96	7.8 perm @ 5.5"
Air Leakage @ 3.5" ASTM E 283 @ 75 PA	Infiltration 0.005 L/s/m <sup>2</sup> Exfiltration 0.006 L/s/m <sup>2</sup>
R-Value @ 1" ASTM - C 518 R-Value @ 3.5" R-Value @ 5.5" R-Value @ 11"	R 3.5 R 13 R 20 R 39
Tensile Strength ASTM D1623	3.4 lb/in <sup>2</sup>
VOC Emissions	Negligible
Fungi Resistance ASTM C 1338	No Growth
Maximum Service Temperature	180°F
Flammability - ASTM E-84	<u>4 inch</u> Flame Spread ≤ 25 Smoke Dev ≤ 450

Note: The above values are average values obtained from laboratory experiments and should serve only as guide lines. Free rise core density should not be confused with overall density. Overall densities are always higher than free rise core densities and take into account skin formation, thickness of application, environmental conditions, etc.

Polyurethane products manufactured or produced from this liquid system may present a serious fire hazard if improperly used or allowed to remain exposed or unprotected. The character and magnitude of any such hazard will depend on a broad range of factors, which are controlled and influenced by the manufacturing and production process, by the mode of application or installation and by the function and usage of the particular product. **Any flammability rating contained in this literature is not intended to reflect hazards presented by this or any other material under actual fire conditions. These ratings are used solely to measure and describe the product's response to heat and flame under controlled laboratory conditions.** Each person, firm or corporation engaged in the manufacture, production, application, installation or use of any polyurethane product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage, and utilize all appropriate precautionary and safety measures.

## Sealite™ OCX APPLICATION INFORMATION (12-005)

### EQUIPMENT AND COMPONENT RATIOS:

It is preferred that this system be processed with Polyurethane Spray Equipment capable of the following operating parameters. Sealite™ OCX R-side is connected to the resin pumps with Sealite™ OCX A-side connected to the isocyanate pumps. The proportioning pump ratio is 1 to 1. Dispensing temperature should be set between 120-140°F for automatically controlled machinery to give a good pattern.

Application pressure should be set 1100-1500 psi. Mixing chambers should be 02 or smaller. For additional assistance contact NCFI Polyurethanes technical services.

### STORAGE AND USE OF CHEMICALS:

The recommended storage should be 55 - 90°F. Do not store in direct sunlight. Keep drums tightly closed when not in use. Use desiccant air drying canister on the A side drum when in use and store it with dry air or nitrogen pressure of 2-3 psi after opening to prevent moisture contamination. Cool storage of the resin extends shelf life. Exposure to temperatures above 85°F will shorten the expected shelf life. Store above 35°F, keep temperature of chemicals near 70°F for several days before use. Cold chemicals can cause poor mixing, pump cavitation or other process problems due to higher viscosity at lower temperatures. The shelf life of properly stored material is six months.

### SAFE HANDLING OF LIQUID COMPONENTS:

Use caution in removing bungs from the container. Loosen the small bung first and let any built up gas escape before completely removing. Avoid prolonged breathing of vapors. In case of chemical contact with eyes, flush with water for at least 15 minutes and get medical attention. For further information refer to "MDI-Based Polyurethane Foam Systems: Guidelines for Safe Handling and Disposal" publication AX-119 published by the Center for the Polyurethanes Industry 1300 Wilson Blvd, Suite 800, Arlington, VA 22209.

### AGITATION INSTRUCTIONS FOR Sealite™ OCX:

Stabilize the R-side temperature within the recommended in-use temperature range of 60-90°F. Mix the R side a minimum of 30 minutes with an electric mixer at 700-800 rpm before spraying. R side chemical in the hose should be cycled back into the R side drum or sprayed out in a test pattern prior to application of the foam on the job. Continue mixing during the spray application. The mixer should have a threaded base which is compatible with the 2" bung opening. An example of an acceptable mixer is a 1/3 hp Leeson (model C4C17FC9C). This particular model would be operated with the variable speed drive set at approximately 50%.

### SPECIAL HANDLING NOTICE

Care should be taken to avoid the introduction of any other chemical system (such as closed cell spray foams) into the R side drum of 12-005. We strongly recommend, at a minimum, the use of a dedicated stainless steel transfer pump for this material to avoid the possibility of cross contamination. User should expect that there will be a degree of waste in spraying out the changeover between closed cell to open cell foams. Under no circumstances should the user bleed out spray lines of these incompatible foams back into the drum.

### PREPARATION OF SURFACE TO BE SPRAYED:

All surfaces to be sprayed should be clean, dry, and free of dew or frost. All metal to which foam is to be applied must be free of oil, grease, etc.

### OPTIMUM ADHESION TEMPERATURE OF SURFACE TO BE SPRAYED:

On general work where the surface to be sprayed will remain at ambient temperature or cooler, the surface should be between 50°F and 120°F. In this range the warmer the surface the better the adhesion. In some cases the surface may require a primer. When surfaces are cooler than the optimum range, the spray applicator should spray a test area approximately 100 square feet and check for proper adhesion and cell structure. If both are satisfactory, then the spray application may continue.

### VAPOR BARRIER PROTECTION:

In most instances a vapor barrier/retarder must be used with the application of Sealite™ OCX. Please consult the local building codes for information or contact NCFI Polyurethanes for recommendations.

### CODE-COMPLIANT FIRE RESISTANCE:

Where foam is sprayed over areas of building interiors, building codes require the installation of an approved thermal barrier between the foam plastic insulation and the occupied space. ½" gypsum board or other tested and approved materials may be installed as a thermal barrier. Refer to specific building codes for details. Contact NCFI Polyurethanes for specific alternate approvals for 12-005

The information on our data sheets is to assist customers in determining whether our products are suitable for their applications. The customers must satisfy themselves as to the suitability for specific cases. NCFI warrants only that the material shall meet its specifications; this warranty is in lieu of all other written or unwritten, expressed or implied warranties and NCFI expressly disclaims any warranty of merchantability, fitness for a particular purpose, or freedom from patent infringement. Accordingly, buyer assumes all risks whatsoever as to the use of the material. Buyer's exclusive remedy as to any breach of warranty, negligence or other claim shall be limited to the purchase price of the material. Failure to adhere strictly to any recommended procedures shall relieve NCFI of all liability with respect to the material or the use thereof.