



Icynene™ OC No-Mix is a Class 1 rated spray foam that provides applicators with ultra high yield, low density and cost savings.

Icynene OC No-Mix is a two component system which sprays 1:1 by volume through standard high pressure spray equipment that does not require constant agitation.

Product Use

Icynene OC No-Mix forms a completely sealed air barrier in wall cavities and can be used to fill 2" x 6" stud wall construction in a single application. Its performance is superior to commonly used fiber-glass batt or blown-in insulation. It adheres well to most building materials and will provide a continuous barrier against air infiltration for the life of the building. As a component of a "systems" approach to proper building envelope construction in both residential and commercial construction, Icynene OC No-Mix provides exceptional performance in reducing heat transfer.

PROCESSING APPLICATION METHOD	
Recommendations	ICYNENE OC NO-MIX
Spray Gun	Fusion AP Spray Gun
Mix Chamber	AR 5252

RECOMMENDED PROCESSING PARAMETERS*	
Initial Primary Heater A-Side (ISO) Setpoint**	133 - 145°F
Initial Hose Heat Setpoint**	133 - 145°F
Initial Primary Heater B-Side (Resin) Setpoint**	133 - 145°F
Initial Recirculating Setpoint	90 - 100°F
Initial Processing Setpoint Pressure	1100 - 1500 psi
Drum Temperature During Storage	50 - 77°F
Drum Temperature During Processing	65 - 77°F
Substrate & Ambient Temperature	20 - 120°F
Moisture Content of Substrate	≤19%
Moisture Content of Concrete	Concrete must be cured, dry and free of dust and form release agents.

^{*}Foam application temperatures and pressures can vary widely depending on temperature, humidity, elevation, substrate, equipment and other factors. While processing, the applicator must continuously observe the characteristics of the sprayed foam and adjust processing temperatures and pressures to maintain proper cell structure, adhesion, cohesion and general foam quality. It is the sole responsibility of the applicator to process and apply lcynene OC No-Mix within specification.

APPLICATION GUIDELINES

lcynene OC No-Mix may be applied in single and multi-family residential buildings as well as commercial and agricultural buildings. Icynene OC No-Mix may be applied to all wall, ceiling and floor spaces for the purpose of thermal insulation and air leakage control. Icynene OC No-Mix may be applied to any typical construction materials, including but not limited to wood, metal, masonry and concrete substrates.

START-UP PROCEDURE

Once the resin line has been purged, recirculation may be used to increase temperatures but it is preferred that drum blankets be used prior to beginning the change-over process to insure uniform drum temperature.

Mixing of Icynene OC No-Mix is not required but is suggested during recirculation to assist in creating a uniform temperature throughout the drum if this method is used for the heating of material. Maximum temperature during recirculation should not exceed 90°F.

 ${\tt DO\;NOT\;circulate\;or\;mix\;other\;supplier's\;"A"\;or\;"B"\;components\;into\;lcynene\;OC\;No-Mix\;containers.}$

FLUSHING PROCEDURE

Before Icynene OC No-Mix is introduced to any equipment, purge any previous material from your system. Turn off and disconnect air to all transfer pumps. Remove the drum pumps from the ISO and Resin drums and wipe pumps and dip tubes clean. Ensure Resin drum pump housing is emptied. Place the drum pumps and dip tubes in Huntsman Building Solutions ISO and Icynene OC No-Mix drums. Reconnect or turn on the air to the drum pumps. Use the drum pumps to purge the ISO and Resin supply and recirculation hoses back to their respective drums or into containers for reuse. One to two gallons of material are normally purged, depending on hose length. When finished and changing into another system, flush the "B" Side (resin side) with 3-4 gallons of water.

^{**}It may be necessary to go outside of the recommended processing parameters or split temps due to ambient temps and material viscosity.

APPLICATION CHARACTERISTICS

Properly blended material will result in uniform cell structure and color throughout the application. Icynene OC No-Mix provides best results when the first pass is sprayed at 3 inches. Each pass there after can be sprayed up to 6 inches. Icynene OC No-Mix should not be applied to materials with surface moisture content of 20% or greater. If the sprayed foam appears to run, sag or drip, the hose and preheat temperatures should be increased in 3°F increments until the issue is corrected. At no time should the temperatures exceed 145°F for the A, B or hose. In some cases the machine pressure may need to be reduced to minimize the amount of material being applied and decrease the possibility of blowing reactive material off of the substrate. When applying more than one lift of material, (15) minutes between passes is recommended particularly in cold weather to allow surface moisture to evaporate prior to the next application occurring. If the second application shows separation between passes or delamination, the time between passes should be increased.

If shrinkage or delamination of the sprayed material is observed, there are 3 possible issues that should be observed:

#1. Improper Mixing of the Material:

Check the gauges for balance. If the gauges are balanced there may still be the possibility of a clogged screen or partial obstruction in the mixing chamber.

#2. The Material Is Too Hot:

Resolved by decreasing the temperature in 3°F increments until the issue stops.

#4. High Moisture Content of the Substrate:

The moisture content (surface moisture) should be less than 20% maximum and preferably less than 17%. Surface moisture is very common in cold weather applications and is the result of quickly heating an area for application.

Huntsman Building Solutions recommends heating an area in cold weather prior to an application to insure optimum material performance as well as using the proper ventilation for the process. As the air will heat more quickly than the substrate and the substrate has a cold exposure to the outside, condensation of humidity can occur on the substrate. Even low levels of moisture can contribute to shrinkage of an open cell product. Simply continue to heat the area and wait a short time for the condensation to evaporate can resolve this issue.

COLD WEATHER APPLICATIONS

In most cases, the best application technique for cold weather, is to work from the bottom to the top of the intended target. This allows the material to build and maintain heat as the material reacts and helps overcome cold ambient and substrate conditions. Minimum pass thickness per pass in cold weather should result no less than 2 to 3 inches of foam to insure proper temperature is developed by the reaction to attain complete reaction of all materials.

SHUTDOWN PROCEDURE

To prepare for shutdown overnight, park proportioner system according to manufacturer procedures. This should include greasing spray gun according to manufacturer procedures. If any significant issues are not resolved by using the procedures noted in the document, please contact Technical Service Representative or the Technical Department of Huntsman Building Solutions for assistance.

MATERIAL SHELF LIFE

Six (6) months when stored within the recommended temperature range.

WAREHOUSE STORAGE REQUIREMENTS

Materials stored in warehouses which will not be used immediately, both A&B components should be stored between 50°F and 77°F.

THIS FOAM MUST NOT BE APPLIED IN EXCESS OF 6 INCHES PER APPLICATION. THE FOAM SHOULD BE ALLOWED TO COOL FOR 10 TO 20 MINUTES OR UNTIL THE SURFACE HAS RETURNED TO AMBIENT TEMPERATURE BEFORE ADDITIONAL APPLICATIONS OF FOAM ARE ATTEMPTED. FOAM APPLIED IN EXCESS OF 8 INCHES OR WITHOUT ALLOWING FOR COOLING MAY RESULT IN, BUT IS NOT LIMITED TO EXCESS HEAT BUILD-UP AND RESULT IN FIRE OR THE GENERATION OF OFFENSIVE ODORS THAT MAY NOT DISSIPATE WITH TIME.

THERMAL BARRIER

IRC and IBC codes require that SPF be separated from the interior of a building by an approved fifteen (15) minute thermal barrier, such as 1/2" gypsum wall board or equivalent, installed per manufacturer's instructions and corresponding code requirements. There are exceptions to the thermal barrier requirements: (1) Code author ties may approve coverings based on fire tests specific to the SPF application. For example, covering systems that successfully pass large scale tests may be approved by code authorities in lieu of a thermal barrier; (2) SPF protected by 1" thick masonry does not need a thermal barrier. Certain materials that offer protection from ignition, called "ignition barriers," may not be considered as thermal barrier alternatives unless they comply with NFPA 286 or other full-scale burn tests. Applicators should request test data and code body approvals or other written indications of acceptability under the code to be sure that the product selected offers code-compliant protection.

HANDLING AND SAFETY

Respiratory protection is **MANDATORY**! Huntsman Building Solutions requires that supplied air and a full face mask be used during the application of any spray applied foam system. Contact Huntsman Building Solutions for a copy of the Model Respiratory Protection Program developed by CPI or visit their website at www.polyure-thane.org. Persons with known respiratory allergies should avoid exposure to the "A" component. The "A" component contains reactive isocyanate groups. The materials must be handled and used with adequate ventilation. The vapors must not exceed the TLV (0.02 parts per million) for isocyanates. Avoid breathing vapors. Wear a NIOSH approved respirator. If inhalation of vapors occur, remove victim from contaminated area and administer oxygen if breathing is difficult. Call a physician immediately. Avoid contact with skin, eyes, and clothing. Open containers carefully, allowing any pressure to be relieved slowly and safely. Wear chemical safety goggles and rubber gloves when handling or working with contact, wash area with soap and water. Wash clothes before reuse. Applicators should ensure the safety of the jobsite and construction personnel by posting appropriate signs warning that all "hot work" such as welding, soldering, and cutting with torches should take place no less than 35 feet from any exposed foam. If "hot work" must be performed all spray polyurethane foam should be covered with an appropriate fire or welder's blanket, and a fire watch should be provided.

IN CASE OF SPILLS OR LEAKS

- Utilize appropriate personal protective equipment (PPE).
- Contain and cover spilled material with a loose, absorbent material such as oil-dry, vermiculite, sawdust or Fuller's earth.
- Shovel absorbent waste material into proper waste containers.
- Wash the contaminated areas thoroughly with hot, soapy water.
- Ventilate area to remove vapors.
- Report sizeable spills to proper environmental agencies.

IN CASE OF FIRE EXTINGUISHING MEDIA

Dry chemical extinguishers such as mono ammonium phosphate, potassium sulfate and potassium chloride. Additionally, carbon dioxide, high expansion (proteinic) chemical foam or water spray for large fires. Positive pressure ventilation of the work area is recommended to minimize the accumulation of vapors in the work area during the application. Improper application techniques of this foam system must be avoided. This includes excessive thickness, off ratio material, and spraying into rising foam. The potential results of improperly applied materials may include but is not limited to excessive heat build-up, and may result in a fire or offensive odors which may not dissipate with time and/or poor product performance due to improper density of the applied material. Large masses of sprayed materials should be avoided. When large masses are generated they should be removed from the area, cut into small pieces and allowed to cool before disposal. Failure to follow this recommendation may result in a fire. It is recommended that a fire extinguisher be located in an easily accessible portion of the work area.

DISCLAIMER

The data presented herein is not intended for use by non-professional applicators, or those persons who do not purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer. All guarantees and warranties as to products supplied by Huntsman Building Solutions shall have only those guarantees and warranties expressed in writing by the manufacturer. The buyer's sole remedy as to any material claims will be against the applicator of the product. The aforementioned data on this product is to be used as a guide and is subject to change without notice. The information herein is believed to be reliable, but unknown risks may be present. NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING PATENT WARRANTIES OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR USE, ARE MADE BY HUNTSMAN BUILDING SOLUTIONS WITH RESPECT TO OUR PRODUCTS OR INFORMATION SET FORTH HEREIN.

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