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PRODUCT DESCRIPTION

IPS 2000HFO is an innovative two component, medium density, one to one by volume high yielding spray foam, Class 1 rated wall insulation system designed for commercial, residential & industrial applications. IPS 2000HFO is intentionally formulated without harmful HFCs, leading to an exceptionally low Global Warming Potential (GWP.)

PROCESSING INSTRUCTIONS

Mixing	Do not mix.	
Heating & Recirculating	Do not recirculate. Ensure that the initial chemical temperatures within the drums fall within the range of 60°F to 75°F for both the A-Side and B-Side. Utilize a laser thermometer or inlet temperature gauge to measure the drum temperature, ensuring that the A-Side drum never exceeds the temperature of the B-Side drum. In the event the drum temperature falls below 60°F, gradually increase it using a warming blanket or heated storage — avoid rapid heating with a portable heater. Caution: Excessive heat may cause the blowing agent to boil off.	
Spray Technique	While spraying, it is crucial to position the spray gun at a 90-degree angle to the substrate. Maintain a consistent distance of 16-18 inches throughout the application process. For wall cavities, adopt a side-to-side spraying technique, covering the area from the bottom of the bay to the top, ensuring thorough wetting of the studs along the way. When spraying a flat wall, adhere to the recommended gun angle and distance, avoiding the application of spray over a width exceeding 2 feet. This approach helps ensure optimal and controlled coverage for effective results.	
Contamination	Take care to avoid resin contamination. Do not mix different resin products. Ensure thorough cleaning of mixers and transfer pumps, eliminating any debris, especially from different resin types. Prevent the mixture of open-cell resin into closed-cell resin for product integrity.	
Foam Protection	Shield the finished product from direct sunlight to avoid UV degredation.	
Storage	Low temperatures can adversely affect the performance of chemicals by causing issues such as poor mixing, pump cavitation, or other process-related challenges due to increased viscosity. To optimize chemical performance, it is recommended to store them at temperatures between 60°F and 75°F for a period of 24 hours before use, ensuring that the storage temperature does not exceed 88°F. In cold conditions, refrain from placing drums on concrete or metal floors. Avoid direct exposure to sunlight during storage. Maintain the integrity of the chemicals by tightly sealing drums when not in use.	



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PROCESSING PARAMETERS

Dynamic Fluid Pressure	1,000 - 1,500psi
Mixing Ratio	1:1
Hose Heat	105-125f
Preheat Temperature	"A" & "B" Component 105-125f
Drum Temperature in Use	65 - 88f
Recommended Mixing Chambers	Graco AR 4242

APPLICATION PARAMETERS

Storage Temperature	60-75°F
Suggested Ambient Ranges	Winter Speed (10-75°F) Summer Speed (50-120°F)
Ambient Temperature	>5°F above dew point
Moisture Content of Substrate	<19%
Max Lift per Pass	3.5″

RECOMMENDED PROCESSING EQUIPMENT:

Follow the spray equimpent manufacturers safe operation guidelines. The processing equipment should have the capacity to deliver the polymeric isocyanate (PMDI) and polyol blend in a 1:1 volume ratio at suitable temperatures and spray pressures. Variations exist among individual spray units, necessitating precise calibration of primary heater and hose temperatures for each distinct polyurethane foam system. Adjust processing pressures and refine application techniques to achieve an optimal spray pattern tailored to the characteristics of the substrate and structure in question. Prior to engaging with this product, it is imperative to thoroughly review and acquaint yourself with the provided information, including the Safety Data Sheet (SDS), outlining the associated risks, appropriate usage guidelines, and safe handling procedures. All contractors and applicators are required to utilize suitable Personal Protective Equipment (PPE), such as respiratory, skin, and eye protection, when dealing with and processing spray foam systems.

YIELD:

Foam application temperatures and pressures are subject to considerable variation due to factors like temperature, humidity, elevation, substrate, and equipment. While applying IPS foam, it's crucial for the applicator to continuously monitor the sprayed foam's characteristics and make necessary adjustments to processing temperatures and pressures to maintain the desired cell structure, adhesion, cohesion, and overall foam quality. The applicator bears the sole responsibility for ensuring that IPS foam is processed and applied within specified parameters. The Equipment Settings chart offers initial optimum settings, but real operating ranges will fluctuate with changes in ambient air conditions, humidity, moisture, and substrate temperatures. Extreme conditions can significantly impact foam yield, adhesion, and cured physical properties, necessitating adjustments by the applicator as conditions change.





Disclaimer: The data provided in this document is intended solely for professional applicators and individuals who purchase or use this product in the regular course of their business activities. Potential users are responsible for conducting relevant tests to determine the products performance and suitability for their specific applications, as the final decision regarding its fitness for a particular use rests with the buyer. It is the applicators responsibility to have a comprehensive understanding of all equipment technical information and safe operating procedures related to the application of spray polyurethane foam. Any guarantees and warranties related to products supplied by Innovative Polymer Systems are limited to those explicitly expressed in writing by the manufacturer. In the case of material claims, the buyers sole recourse is against the applicator of the product. The information presented in this document is intended as a general guide and is subject to change without prior notice. While the information is believed to be reliable, potential unknown risks may exist. Innovative Polymer Systems makes no warranties, whether expressed or implied, including patent warranties of merchantability or fitness for use, in relation to our products or the information provided here. To the best of our knowledge, the technical data included in this document is accuracy is implied or given. We guarantee our products to meet Innovative Polymer Systems to verify its correctness before specifying or placing orders, and no guarantee of accuracy is implied or given. We guarantee our products to meet Innovative Polymer Systems quality control standards but assume no responsibility for coverage, performance, or injuries resulting from use.