

Technical Data Sheet**SUPRASEC® 9611 MDI****Moisture Cure Diphenylmethane Diisocyanate Primer****DESCRIPTION**

SUPRASEC 9611 MDI Isocyanate has been designed to function as a high performance, one-component, moisture-cure urethane primer system designed for use on concrete. Its low viscosity allows it penetrate into porous surfaces, leaving a bubble-free coating. Working time is adjustable by selective addition of catalyst. It also exhibits a low sensitivity to substrate moisture, leaving only minimal bubbling when applied to damp surfaces.

Analytical Properties

Color	Light Brown Liquid
Isocyanate Equivalent Weight	350.0
NCO content, %	12.0
Viscosity at 77°F (25°C), cps	425
Specific Gravity at 77°F (25°C)	1.16
Flash Point, (Cleveland Open Cup) °C (°F)	>110 (>230)
Vapor Pressure at 77°F (25°C) (mm Hg)	< 10 ⁻⁵
Functionality	2.40
Recommend Storage Temperature	60-100°F (16-38°C)
Shelf Life	6 Months

APPLICATIONS

SUPRASEC 9611 MDI is recommended for use as a primer for polyurethane and polyurea coatings applied to either concrete or wood substrates. SUPRASEC 9611 MDI may be used in applications such as: industrial flooring, roofing, decking, truck-bed liners, pipelines and tank coatings

Note: Products made from SUPRASEC 9611 MDI will yellow with exposure to UV light (including sunlight). Users should make their own tests to determine the suitability of this product for their own particular purposes.

HANDLING AND STORAGE

Moisture, either as a vapor or liquid, is the most probable cause of diisocyanate contamination. SUPRASEC 9611 MDI reacts readily with water, producing solid deposits and evolution of carbon dioxide gas. Storage under a slight positive pressure (a few inches water gauge) of dry nitrogen is essential to prevent ingress of moisture. Care should be taken, however, in using any pressure above 5 psig., as increasing solubility of the gas in the diisocyanate may adversely affect further processing steps or products. Carbon dioxide should not be used for this purpose at any pressure because of its solubility in diisocyanates.

Freshly manufactured SUPRASEC 9611 MDI is a light brown liquid. Sedimentation is usually due to contamination from atmospheric moisture or to dimer formation. Reaction from atmospheric moisture can be prevented by storing SUPRASEC 9611 MDI in carefully sealed containers or under a dry nitrogen atmosphere. During handling, SUPRASEC 9611 MDI must also be protected from atmospheric moisture and water ingress, and containers must be carefully resealed after each sampling.

A small amount of finely divided insoluble solid in the liquid product does not usually cause difficulties in handling or product performance. However, if necessary, the liquid product may be filtered through a suitable in-line filter. It is suggested that the filter vessel be of stainless steel with a suitable polypropylene filter bag. The lines should be heated and blown clear with nitrogen after use.

The recommended storage temperature for SUPRASEC 9611 MDI is 60-100°F (16-38°C). If the product has been exposed to temperatures below the recommended storage temperatures for more than a few hours, the material may increase in viscosity. If this occurs, the product may be heated to room temperature to reduce viscosity.

Empty containers should not be disposed of until all hazardous residue has been removed. Remove container from work area, preferably outdoors, or in a well ventilated area. Fill container with decontamination solution containing 3-8% ammonia and 0.2-0.5% detergent and allow to stand for 48 hours. Do not seal or otherwise close bungs in container. After draining the container, puncture or crush it in accordance with waste disposal regulations.

REACTIVITY HAZARD

SUPRASEC 9611 MDI is an organic isocyanate and, as such, requires care in handling because it reacts with water and organic compounds containing active hydrogen groups. Because the reaction of SUPRASEC 9611 MDI with water produces carbon dioxide gas, containers that have become contaminated with moisture should not be subsequently sealed; otherwise, pressure build-up will result.

ATTENTION

This product is sold solely for use by industrial institutions. Please refer to the Material Safety Data Sheet (MSDS) regarding regulatory compliance, safety, hazards, spill procedures and disposal of this product.

For Your Protection

HEALTH AND SAFETY

The Safety and Health information in this data sheet does not contain sufficient detail for safe handling in all cases. For detailed safety and health information refer to the Material Safety Data Sheet for this product.

EMERGENCY CALLS: Huntsman Emergency Response Center: 800-328-8501, 409-722-8381 / CHEMTREC - Spills, Leak, Fire 800-424-9300 (in USA and Canada)

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