



ECO-RISE™ 3.0

Environmentally Friendly
Concrete Slab Jacking and Stabilization Pour Foam
PRELIMINARY TECH DATA
Revised 11-06-13

DESCRIPTION

ECO-RISE™ 3.0 is a two component, closed cell, rigid polyurethane system for pour foam applications. This foam is low viscosity and is specifically designed for pour operations to produce rigid foam for concrete slab and road jacking and stabilization.

This product has excellent processing characteristics. Good dimensional stability and adhesion to substrate.

ECO-RISE™ 3.0 is formulated using only virgin Polyether polyols enhancing its hydrolytic stability characteristics.

This product is sold in 100 gallon drum sets and 500 gallon tote sets. Material containers are translucent, allowing applicator to view fluid levels.

Green Features

- No Dangerous Heavy Metal Catalysts (such as lead or mercury)
- No Ozone Depleting Products (ODP)
- No Bromine or Other Halogenated Components
- No Formaldehyde Components
- Mildew, Bacteria, and Fungus Resistant
- Contains Renewable Resource Components
- Considered Safe for Burial and Landfill Disposal
- Compliant with USDA/FDA Requirements for Incidental Food Contact

COMPONENT PROPERTIES

PROPERTY	"A" SIDE (ISOCYANATE)	"B" SIDE (RESIN)
Color	Amber	Light Yellow
Viscosity @ 77°F (25°C)	± 200 cps	± 700 cps
Storage Temps	60°F – 90°F (15°C – 32°C)	60°F – 90°F (15°C – 32°C)
Shelf Life(unopened)	* 1 year	* 1 year
Mixing Ratio(volume)	1	1

*When continuously stored and maintained at above storage temperatures

PRODUCT REACTIVITY @ 125F (52°C)

Cream time	1 sec
Rise time	4 sec
Tack Free time	4 - 8 sec
Cure time	4 hrs

*The reactivity profile of the foam can be varied as needed. The samples for tests were sprayed with Gusmer 20/35 @ 1200 psi dynamic pressure. Primary and hose heat @ 125°F (52°C). Graco AP Fusion gun with AR 37/37 module with pour foam adapter.

PRODUCT LIMITATIONS

This product has not been tested for flame spread or smoke development.

Not to be installed within two inches (2") of heat emitting devices, where temperature is in excess of two hundred degrees (200°F).

RECOMMENDED EQUIPMENT / SETTINGS CONVENTIONAL PLURAL-COMPONENT EQUIPMENT

- Standard 1:1 ratio, heated, plural component equipment developing a minimum of 1200psi (83 bar) dynamic pressure with heating capabilities to 150°F (66°C) will adequately process ECO-RISE™ 3.0. These include Graco A-20 or equivalent, PMC PA-25 or equivalent, Gusmer FF-1600 or equivalent. Gun models include GRACO Air Purge Fusion, GX-7-400, Probler P2, or MP Fusion. Pre-heater temperature should be a minimum of 120°F – 140°F (49°C – 60°C).
- Hose temperature should be 120°F – 140°F (49– 60°C). A hose thermometer inserted under the insulation near the gun should read a minimum of 110°F (43°C).
- Substrate temperature should be a minimum of 50°F (10°C).

GENERAL SAFETY, TOXICITY & HEALTH DATA

Material Safety Data Sheets are available for the Polyurethane Foam. Any individual who may come in contact with these products should read and understand the M.S.D.S. **CHEMTREC EMERGENCY NUMBER 1-800-424-9300**

NOTE: Polyurethane Foam products under certain conditions may present a significant fire hazard. The potential for such hazard depends upon a broad range of factors influenced by the manufacturer or user of the product. Any person or firm

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engaged in the use of Polyurethane Foam materials should carefully determine the potential for fire in their processes and use all precautions outlined by local, state, and federal regulations.

WARNING: Contact with skin or inhalation of vapors may cause an allergic reaction. Avoid eye contact with the liquid or spray mist. Applicators should wear protective clothes, gloves and use protective cream on face, hands and other exposed areas.

CLEAN UP: Use DPM, NMP, Polyclean.

CONTAMINATION: Avoid moisture contamination in containers. Containers should not be resealed if contamination is suspect, carbon dioxide created pressure can develop. Do not attempt to use contaminated material.

EYE PROTECTION: Safety glasses, goggles, or a face shield are recommended.

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible, with appropriate clothing.

RESPIRATORY PROTECTION: Use a respirator approved for isocyanates and organic vapors. If you are not sure or not able to monitor levels, or if you are applying in an enclosed/indoor area, use MSHA/NIOSH approved supplied air respirator. Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

INGESTION: Do not take internally. It is believed that ingestion of polymeric isocyanates would not be fatal to humans, but may cause inflammation of mouth and stomach tissue.

LIMITATIONS

- This product is for professional use only.
- Minimum material/container temperature for processing application is 70°F (21°C).
- Avoid moisture contamination in containers. Containers should not be resealed if contamination is suspected, CO₂ created pressure can develop. Do not attempt to use contaminated material.

WARRANTY & DISCLAIMER

Specialty Products, Inc. has no role in the manufacture of the finished polymer other than to supply its two components. It is vital that the person applying this product understands the product, and is fully trained and certified in the use of plural-component equipment.

Specialty Products, Inc., an Alaska corporation, warrants only that the two components of this product shall conform to the technical specifications published in the product literature.

The quality and fitness of the product are dependent upon the proper mixture and application of the components by the

applicator. There are no warranties that extend beyond the description on the face of this instrument.

Failure to apply the product within the parameters stated on this document shall void the warranty.

SPECIALTY PRODUCTS, INC. MAKES NO WARRANTY OF MERCHANTABILITY OF THE PRODUCT OR OF FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE.

Specialty Products, Inc. makes no warranty as to the quality of any product modified, supplemented, tinted, or altered in any way after it leaves the manufacturing plant.

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The data presented herein is intended for professional applicators or those persons who 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.

The aforementioned data on this product is to be used as a guide and is subject to change without notice.

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