

► PolyGhard EXP 3000

EXPANDABLE POLYUREA

► The Brand
You can Trust!

Ghemco PolyGhard EXP 3000 is a two component (ratio 1:1), high strength, highly flexible, aromatic expandable polyurea. PolyGhard EXP 3000 can expand several times its original volume which allows it to fill cracks, seams, and crevices of all sizes, creating a water resistant membrane for true and lasting durable performance. PolyGhard EXP 3000 has unlimited uses and performs well with all roof system restorations, pedestrian walking decks, tanks, and walls. Provides temperature reduction and eliminates thermal bridging.

FEATURES & BENEFITS

- Seamless
- Lightweight
- Water Resistant
- No VOC's
- Cures in Seconds
- Seals All Cracks and Crevices
- No Thermal Bridging
- Excellent Adhesion and Flexibility
- Long-lasting Waterproof Seal
- Adds Structural Strength to Any Structure, Including Roof Systems
- Excellent Protection Against Level 4 Hail Conditions
- Energy Saving - Reduces Roof Temperatures by 30°-50°F

TYPICAL USES

- Exterior Tank Lining
- Walls
- Modified Bitumen
- BUR
- Metal
- Single-Ply
- Concrete
- Spray Polyurethane Foam (SPF) Systems
- Pedestrian Deck Systems

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DIRECTION OF USE

Storage and Handling

Containers for both A and B components should be kept tightly closed to prevent moisture contamination. Do not reseal if contamination is suspected. Use of a dry nitrogen blanket for partial drums is recommended. Side B may be stored at ambient temperatures. Storage for Side A should be maintained between 77°F (25°C) and 95°F (35°C). For best results, this product should not be allowed to freeze, although it may be re-heated in a well ventilated oven for a period of time to re-liquefy solid particles. To avoid product degradation, product temperature during re-heating should not exceed 140°F (60°C). An additional note of caution is that exposure to temperatures over 400°F (204°C) can create excessive pressure potentially causing containers to rupture. Do not breathe aerosol or vapors and avoid contact with skin and eyes. Exposure to vapors of heated MDI can be dangerous. To heat product properly, use well ventilated convection ovens or other methods that distribute heat evenly. Avoid using drum heaters or other heat sources that may cause excessive local heating.

SAFETY & PRECAUTIONS

Job Site Protection

Overspray from PolyGhard EXP 3000 can carry considerable distances and attention should be given to the following:

1. Post warning signs a minimum of 100 feet from the work area.
2. Cover all intake vents near the work.
3. Minimize or exclude all personnel not directly involved with the spray application.
4. No welding, smoking or open flames.
5. Have CO2 or other dry chemical fire extinguisher available at the job site.
6. Provide adequate ventilation.

Vapor Inhalation

Effects of overexposure to vapor are characterized by nasal and respiratory irritation, dizziness, nausea, headache, fatigue, possible unconsciousness or even asphyxiation. Vapor inhalation problems are characterized by coughing, shortening of breath and tightness in the chest. Anyone exhibiting these types of symptoms should be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.

Skin Contact

Skin contact with liquid components can result in a rash or other irritation. Wash the affected skin area with water. Wipe residual liquid from the skin with a clean cloth, then wipe the affected area with 30% solution of rubbing alcohol. Follow the alcohol wipe with repeated washings with soap and water. If a rash or other irritation develops, see a physician.

Eye Contact

Eye Contact with liquid or sprayed components can result in corneal burns or abrasions. Upon exposure, eyes should be flushed with water for an extensive period. SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.

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TECHNICAL DATA

Viscosity @ 77°F (25°C)	A Side (ISO): 600 - 1000 MPa / B Side (Polyol Blend): 600 - 900 MPa
Specific Gravity @ 77°F (25°C)	A Side (ISO): 1.12 / B Side (Polyol Blend): 1.04
Cream Time	6 - 9 seconds
Rise Time	15 - 25 seconds
Demold Time	5 - 10 minutes
Density	27 lb/ft ³
Hardness, Shore A	40 - 45
Tensile Strength	280 psi
Elongation	170%
Tear Resistance	35 pli
Temperature	A Side (ISO): 140°F - 160°F (60°C - 71°C) / B Side (Polyol Blend): 140°F - 160°F (60°C - 71°C)
Hose Temperature	140°F - 160°F (60°C - 71°C)
Component Pressure	1500 - 2000 psi

* This information is intended only as a guide for design purposes. The values shown are the average values obtained from sprayed laboratory samples. The test methods were performed per the ASTM Book of Standards. Higher or lower temperature & humidity conditions will affect dry time. The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to that description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors.

Please read all information in the general guidelines, technical data sheets, application guide, and safety data sheets (SDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Ghemco Representative or visit our website for current technical data and instructions. **DISCLAIMER:** All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and tests, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether verbal or in writing, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Ghemco makes no claim that these tests or any other tests, accurately represent all environments.