

ULTRA-THANE 200 DB**DITCH BREAKERS, PIPELINE PADS, VOID FILL****PRODUCT DESCRIPTION**

ULTRA-THANE 200 DB is a two-component polyurethane foam system, co-blown with water and 245fa, formulated for exterior ditch breakers, pipeline pads and void filling. It was designed to provide excellent dimensional stability and can be applied in thick continuous applications without scorching. The system may be formulated to meet special application environmental conditions such as temperature and altitude extremes.

UNIQUE PROPERTIES

- Hydrophobic/Closed cell system, will not absorb water in any significant amount (refer to physical properties)
- Low Exothermic reaction, build up DB without scorching

RECOMMENDED USES

- Exterior trench breaker
- Void filling
- Geotechnical

TYPICAL PROPERTIES

	A	B
Visc @ 77°F	150 - 200	600 - 900
Density lb/gal	10.2	9.2
Shelf life	6 mo	6 mo
Ratio, volume	100	100

STORAGE

Keep liquid chemical temperature at 70-80°F prior for use. Cold chemicals can cause poor mixing and equipment processing problems due to higher viscosities at low temperatures.

Storage temps should not exceed 100°F. Do not store drums and totes in direct sunlight. Keep containers tightly closed when not in use and under a nitrogen blanket of 2-3 psi after they have been opened.

SAFETY

This product should not be used in structures where lives can be threatened by fire.

**REACTIVITY EQUIPMENT PROCESSING CHARACTERISTICS
@ 120°F:**

Cream time	2.5 secs
Rise time	10-15 secs

*Other speeds available upon request

PHYSICAL PROPERTIES

Core Density: 2.2-2.6 lb/cu ft
Compressive Strength:(Parallel to rise): 28 psi
Closed Cell content: > 92%
Water absorption: < 0.1 lb/cu ft
Maximum Continuous Service Temperature: 200°F
Dimensional stability (28 day exposure, % Volume change)

-20°F	-0.5
158°F Dry	-0.9
158°F Dry	-2.2

EQUIPMENT AND CHEMICAL PROCESSING

ULTRA-THANE 200 DB should be processed using 1:1 by volume proportioner equipment with a pour adaptor on the gun.

Preheaters and Hose temp	130°F
Dynamic pressure	800-1200 psi

Safety, Health & Toxicity Data

A Material Safety Data Sheet has been prepared on this coating. All personnel who will come in contact with the product should read and understand this MSDS.

PROTECTIVE EQUIPMENT

Since the coatings are atomized into a very fine particle distribution during spray application, it is essential that maximum effort is made to protect the spray mechanic and others near the workplace from undue exposure.

VAPOR INHALATION

The best form of protection against organic solvents or potentially sensitizing vapors in the workplace is a fresh air supply. Numerous manufacturers, including the 3M Company and MSA, make full face fresh air masks. For maximum protection, we recommend use of NIOSH/MSHA approved self-contained breathing apparatus with a full-face piece operated in a positive pressure mode. In well-ventilated application conditions, the use of Type C organic vapor cartridge respirators is acceptable.

SKIN CONTACT

To prevent excessive skin contact with the sprayed product, we recommend use of fabric coveralls and neoprene or other resistant gloves.

EYE CONTACT

Wear a full-face mask or OSHA-approved protective goggles.

FLAMMABILITY

Flash point is 115° F. Avoid open flame or spark sources. Avoid excessive heat. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors or other ignition sources at locations distant from the material-handling point. Never use a welding or cutting torch on or near the drum. In case of fire, use CO₂, steam, dry chemicals or water fog.

SHELF LIFE

ULTRA THANE 200 DB has a minimum shelf life of 6 months from the date of manufacture when stored in original unopened containers at temperature ranges between 32°F and 100°F.

The information herein is believed to be reliable, but unknown risks may be present. General Coatings Manufacturing Corp. warrants only that the material shall be of merchantable quality; this warranty is in lieu of all other written or unwritten, expressed or implied warranties; and General Coatings Manufacturing Corp. expressly disclaims any warranty for a particular purpose or freedom from patent infringement. Accordingly, Buyer assumes all risks whatsoever as to the use of these materials and Buyer's exclusive remedy as to any breach of warranty or negligence claim shall be limited to the purchase price of the materials. Failure to strictly adhere to recommended procedures shall relieve General Coatings Manufacturing Corp. of all liability with respect to the materials or the use thereof.

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.

PROTECTION OF THE WORKPLACE

Overspray of the coatings 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 area.
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 jobsite.
6. Provide adequate ventilation.

FIRST AID CONSIDERATION

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.**

Effects of overexposure to vapor are characterized by nasal and respiratory irritation, dizziness, nausea, headache, fatigue, possible unconsciousness or even asphyxiation.

If ingested and the victim is conscious, give large amounts of water or milk to drink. Obtain medical attention immediately. 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 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.**

