



SYSTEM 350

TYPE

BPI System 350 is a two-component spray applied polyurea for blast mitigation.



DESCRIPTION

Developed specifically for military and fortified structures, BPI System 350 was designed for new construction and retrofitting existing structures.

SUGGESTED USES

Military, Commercial and Residential Blast Mitigation

EQUIPMENT & COMPONENT RATIOS

The mix ratio is 1 to 1 by volume. The pre-heater temperatures should be set at 150°F and able to maintain +/- 2°F.

STORAGE OF RAW PRODUCT

Shelf life is Six (6) month from date of manufacture when stored indoors, in the original unopened containers and between the temperatures of 50°F – 80°F.

BURTI *POLYMER*
INNOVATIONS
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Typical Properties

Property	Test Method	"A"	"B"
Color	N/A	Off-White	Amber/Black
Specific Gravity	ASTM D-1638	1.12	1.08
Viscosity	Brookfield LV	800 cps +100	500 cps + 100
Mixing Ratio	By Volume	50	50
Pounds Per Gallon	From Spec Gravity	10.3	8.3

Physical Properties

Density (PCF)	ASTM D-1622	70
Shore A Hardness	ASTM D-1622	90 – 95
Shore D Hardness	ASTM D-1622	60
Tensile Strength	ASTM D-1622	3100 psi
Elongation	ASTM D-1622	200%
Tear Strength	ASTM D-1622	550 ppi
Taber Abrasion	H-18 WHEEL, 1000 CYCLES	0.013% weight loss

PROCESSING GUIDE

STORAGE/SHELF LIFE: Components "A" and "B" should be stored in their original, unopened containers at temperatures between 50°F and 80°F. Shelf life of unopened, sealed containers is approximately six months under those storage conditions.

EQUIPMENT: Recommended proportioning equipment is manufactured by PMC, Graco, or equivalent. Mixing and ratio by volume is 50 parts A to 50 parts B (1:1). Equipment shall be of the heated, airless type, capable of maintaining 100°F to 140°F at the spray gun. Optimum spraying temperature will vary with type of equipment used, substrate, ambient temperature, and humidity.

GENERAL INSTRUCTIONS: Before the containers are opened, all safety instructions should be read and understood by all personnel who will come into contact with the materials. If the safety instructions are lost or otherwise not available, please contact Burtin Polymer Innovations for a replacement. BPI System 350 A and B component in the drum should be @ 75f or > when processing.

A Burtin Polymer Innovations Material Safety Data Sheet (SDS) is sent with the original shipment and available upon request. All personnel who come in contact with the product should read and understand the SDS.

PROTECTIVE EQUIPMENT: The "A" component is a polymeric isocyanate and may be sensitizing, particularly from the standpoint of VAPOR INHALATION. The best form of protection against sensitizing vapors in the workplace is a FRESH AIR SUPPLY. Several manufacturers, including 3M company and MSA make full face fresh air masks. For minimum protection, organic vapor canister style respirators shall be worn. To prevent contact with the product, wear fabric coveralls and fabric gloves, full-face mask and OSHA approved protective goggles.

HEALTH AND SAFETY

VAPOR INHALATION problems are characterized by coughing, shortness of breath or tightness of the chest. Anyone exhibiting these symptoms shall 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 with liquid components can result in a rash or other irritation. Wash the affected area with water. Wipe residual liquid with a clean soft cloth followed by washing 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.

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