



**TECHNICAL DATA SHEET**  
**Product Name: Blast Mitigator™**

**Product Description:**

Blast Mitigator™ military Grade I is an extremely high strength energy absorbing super-polymer designed to receive extensive elastomeric resiliency when subjected to explosive energy forces. This material possess extraordinary high tear strength and puncture resistance along with exceptional abrasion and superior toughness. When subjected to an exothermic explosion, the superpolymer's molecular geometry is rapidly pushed to a very high energy state enabling it to absorb the enormous kinetic energy of the blast's shock wave energy. This tremendous resiliency in material performance delivers protective containment from fractured substrates and the debris of shrapnel fragments. Military testing has demonstrated blast pressure rates in the order of 250 psi/ms performance at 0.25" thickness.

**Material Property Values and Application Requirements Table**

Property	*Values relative to density	Test Method
Tensile Strength	3622 psi	ASTM D412
Impact	>300 in. lbs	ASTM D2794
Tear Strength	>400 lb/ lin. in.	ASTM D624
Abrasion Resistance	25 mg loss /1000 cycles	ASTM D4060 (CS-17)
Hardness	Shore 45-60D	ASTM D785
Elongation %	>350%	ASTM D412
Application machine: 1800 psi 2-component pumping machine (i.e Graco EXP2), primary heat and hose heat 65°C- 80°C, round pattern spray tip 0.020 mil. <b>**Make 1 pass for desired thickness**</b>		
Mixing Ratio 1A:1B pbv, Power Mix Stir B-Side thoroughly for 10 minutes prior to use until uniform color and viscosity.		
Surface Preparation: clean and dry, no residual cleaner or other contaminates, approved surface type, primer if required, installation ambient temp. 12°C- 36°C , <60% ambient humidity, surface temp. -15°C- 37°C.		
Tack Free Gel Time = 10 sec. No to be topcoated		
Functional operation temperature: -40°C- 65°C., Zero VOC.		
Coverage: 0.016 mils per 100 sqft. Wet Spray build to desired thickness.		
See SDS for material safety data. Must wear eye goggles, respiratory protection, gloves, etc.		
KEEP MATERIAL FROM FREEZING, moisture-free temperature controlled storage 12°C- 32°C, 12 month shelf life if never opened. After opening reseal with Nitrogen blanket.		
Packaging: Tote set 550 gal (4900 lbs), 100 gal Drum set (900 lbs)		

Please contact our Engineering and/or Technical Support Groups with any questions.

[support@weatherallcoatings.com](mailto:support@weatherallcoatings.com) 888-416-7168