



Stopblast II – Mine Surface Protection System

Two-Component 100% Solids Super-Polymer

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Stopblast II - Mine Surface Protection System is a very strong super-polymer coating system designed to provide structural support while shielding against water and methane infiltration for all surfaces in the mine. This system provides high chemical, abrasion resistance, low fire and smoke meeting Class 1 ASTM E84, MSHA ASTM E162, Radiant Panel testing and MSHA IC-249 Flame resistance of solid products. The Stopblast II protection system effectively delivers increase load bearing capacity and reduces localized failure points to defend against rupture and bursting. This high-strength composite structure provides added protection to mine workers, framework infrastructure and overall mine safety.

Mine Surface Protection System:

- Inject Leak-Stop into all surface cracks and voids.
- Spray structural FireSkin Foam (10 pcf) on mine surfaces.
- Apply Stopblast II super-polymer over the structural FireSkin Foam.
- Apply GlowSkin striping to walls.

PRODUCT APPLICATION

Physical application of Stopblast II requires a 2-component high pressure liquid pumping machine. Surfaces must be prepped for cleanliness and use of an adhesion primer is recommended to acquire superior adhesion, which is vital to contributing to the total energy absorption of the system. Application temperature ranges from 40°F to 150°F. Functional operation temperature ranges from -20°F to 250°F. Spray Machine settings should be set at 160°F for primary heaters and hose heat. Spray pressure should be at 2000 psi minimum.

ADHESION RESULTS

Typical Substrates per ASTM D-4541 Elcometer		
Concrete*	>300 psi	Cohesive failure; excellent bonding
Steel*	>1000 psi	Excellent bonding
Composite Lamination*	>1000 psi	Saturated; excellent bonding

STOPBLAST PHYSICAL PROPERTIES

Hardness	ASTM D785	65 D
Tensile Strength	ASTM D412	5,411 psi
Elongation	ASTM D412	250%
Impact	ASTM D2794	>350in. lbs.
Moisture Vapor Transmission	ASTM E96	0.24 perms
Taber Abrasion CS17	ASTM D4060	<22 mg/1k cycle
Tear Strength	ASTM D624	500 lbs./lin. in.
Gel Time	Time	5-8 sec.
Mix Ratio	PBV	1A – 1B

CURE SCHEDULE

Stopblast has a gel time of 5-8 seconds and dries tack free at 30-35 seconds. Stopblast II has a post-cure time of approximately 24 hours although Stopblast II performs best when the material has time to age. Stopblast II samples that have been aged for 30 days or more perform exceptionally well as compared to samples that have been aged for 2 days. For specific applications, please contact our technical support group.

HEALTH AND SAFETY

Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

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