



MineLine 15-30

PRODUCT TYPE

MineLine 15-30 – 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 **MineLine 15-30** protection system effectively delivers increased 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.

MineLine 15-30 Physical Properties

Dispensing Ratio		1A:2B	1A:1B
Tensile Strength	ASTM D412	3000 psi	1500 psi
Elongation	ASTM D412	350 %	800 %
Modulus	ASTM D412	1620	1400
Pensky-Martin Taber Abrasion (mg loss)	ASTM D4060	25	20.5
Hardness Shore A	ASTM D2240	95	85
Tear Strength (PLI)	ASTM D412	400	450
Salt Water Spray	ASTM B117	Pass 500 hours	Pass 500 hours
Seawater Immersion	ASTM D870	Pass 300 hours	Pass 300 hours
Flexibility	ASTM D1737	Pass 1/8" mandrel	Pass 1/8" mandrel
FlashPoint	Penski-Martin	>200 F	>200 F
Viscosity A Side CPS	Zahn #2 Cup	>200 F	>200 F
Viscosity B Side CPS	Zahn #2 Cup	>1200 F	>1200 F
Gel Time	Minutes	<2	<5
Tack Free Time	Minutes	<5	<10
Open to Industrial Traffic	Minutes	<15	<30

COVERAGE CALCULATIONS: Coverage Rate = Feet/gallon: Does not include overfilling

Substrate Width (Inches) Inches					
Depth (In)	1/8	1/4	1/2	3/4	1
1/8	1230	615	308	205	154
1/4	615	308	154	102	77
1/2	308	154	77	51	38
3/4	205	103	51	34	25
1	154	77	38	25	19
1½	205	51	25	17	12
2	77	38	19	12	9
3	52	25	12	8	6

SERIES APPLICATION VARIANCE

In certain cases, it may be recommended by the manufacturer to utilize a particular formulation speed or hardness depending upon the specific needs of the application. **MineLine 15-30** Vertical through Horizontal series offers several different hardness readings from 85 (Shore A) to 95 (Shore A). Elongation properties range from 350 to 800%. Tensile can range from 1500 psi to 3000 psi. Gel times will range between 2 to 6 minutes. The physical properties, gel times, and reaction times vary within the formulation series. Please consult your representative for the formulation that fits your specific application.

APPLICATION EQUIPMENT

MineLine 15-30 may be applied using a plural component pump (1:1 or 2:1 by Volume), hand mixing, or by plural component cartridges. This proportioning unit must be capable of supplying the correct pressure and heat for the required hose length on a consistent basis. This characteristic is mandatory to apply this elastomer in a consistent, efficient manner. When hand mixing, care must be taken to mix and pour in the time required, dependent on the gel time for the specific formulation within the series. For small jobs, **MineLine 15-30** are available in cartridges.

APPLICATION GUIDELINES

Surface application temperature may range from 20°F (-29 C) to 150°F (65 C). Consult your representative for application guidelines requiring adhesion to walls, ceilings, floors or other surfaces. Proper substrate preparation is required for the specific environment.

SHELF LIFE AND STORAGE

Six months in factory delivered unopened drums. Keep away from extreme heat, cold, and moisture. Maintain at a proper storage temperature of 60°F – 80°F. The components used in the **MineLine 15-30** have been specially formulated to withstand low temperature applications. The material can be stored at temperatures as low as 10° F with no gelation of the components. However, it is recommended to warm the material to a minimum of 60° F before application.

CLEAN-UP/DISPOSAL

The uncured isocyanate and resin portions should be mixed together. This creates a non-hazardous cured product that may be disposed of without restriction. “Drip-free” containers should be disposed of in accordance with local, state and federal laws.

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