

Strata Rock Consolidation Void Fill & Water Control

STRATA Advanced Foam Solution (AFS)



Strata AFS is a hydrophobic polyurethane, designed to be injected into rock fissures, gravel layers, joints, cracks and voids to fill voids and consolidate strata. It is ideal for controlling and diverting water, including high volumes of gushing water.



SPECIFICATIONS

- Single Component
- Cures to a rigid, closed cell polyurethane foam
- Free foam expansion up to 30 times
- Controlled reaction time
- Catalysts required for optimal reactivity
- Multiple catalyst options for accelerated reaction times
- Resistant to most organic solvents, mild acids, alkali, petroleum and micro-organisms
- Contains no volatile solvents

PROPERTIES

Strata AFS Resin		
Solids	100%	ASTM D2369
Viscosity	200 cPs at 77°F	ASTM D2196
Color	Black-Brown Liquid	
Density	1.10 g/cm ³	ASTM D4659
Flashpoint	293°F	ASTM D93
Corrosiveness	Non-Corrosive	

Strata AFS Cured		
Density confined	1.00 g/cm ³	ASTM D3574
Density free	2 PCF	ASTM D3574
Compressive	4351 psi	confined
Flexural	2320 psi	confined
Free Foam	4 psi	unconfined

APPLICATIONS

Void fill, rock consolidation and stabilization, water control

- Longwall extraction
- Tip-to-face void fill
- Rock consolidation above shields
- Floor-to-roof stabilization
- Water diversion and stoppage
- Grouting around surface and drill pipes

APPLICATION & LABOR

Strata provides teams of experienced personnel and labor crews to safely complete projects anywhere in the country. Time and Materials service includes the injection resin, pumping equipment, skilled labor and mining professionals to complete the job quickly and accurately.

CATALYSTS - STRATA AFS FAST AND EXTRA FAST

Strata AFS Fast and Extra Fast are designed to be mixed with Strata AFS to provide faster reaction times, particularly in applications involving the cut-off of gushing water.

SPECIFICATIONS

- Accelerate the reaction time for Strata AFS
- Used at a 10% mixing ratio
- Non-flammable*
- Solvent free, and phthalate free
- Not classified as HAZMAT for transport by road, rail or air
- Final foam resistant to most organic solvents, mild acids, alkaloids and microorganisms

*See the flashpoints shown on the "Properties" tables in this product brochure. See also safety data sheets which show an NFPA rating for fire of 1 and a HMIS rating for fire of 1

REACTION TIMES

10% Strata AFS Fast			
Temp	Start	End	Foam Factor
27°F	30"	1'40"	20V
40°F	28"	1'25"	26V
50°F	26"	1'23"	26V
60°F	23"	1'20"	28V
68°F	23"	1'20"	30V
77°F	20"	1'20"	32V

10% Strata AFS Extra Fast			
Temp	Start	End	Foam Factor
27°F	25"	1'15"	24V
40°F	23"	1'10"	28V
50°F	23"	1'10"	28V
60°F	23"	1'05"	30V
68°F	20"	1'05"	30V
77°F	18"	1'05"	32V

PROPERTIES

Strata AFS Fast		
Viscosity	20 cPs at 77°F	ASTM D2196 A
Color	Transparent Red Liquid	
Density	0.973 g/cm ³	
Flashpoint	257°F	ASTM D93

Strata AFS Extra Fast		
Viscosity	20 cPs at 77°F	ASTM D2196 A
Color	Transparent Red Liquid	
Density	1.000 g/cm ³	
Flashpoint	257°F	ASTM D93



HEALTH AND SAFETY

- Always use protective clothing, gloves and goggles consistent with OSHA regulations.
- Avoid eye and skin contact. Do not ingest.
- Refer to MSDS.



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SPEAK TO A REPRESENTATIVE

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