



StrataCrete Plug Seals

MSHA Approved

- ◆ Stratacrete Plug Seals are designed and engineered by Strata Mine Services Inc.
- ◆ They are constructed to withstand 50 psi or 120 psi explosions, depending on the mines conditions and requirements
- ◆ Both 50 and 120 psi seals are MSHA approved under the final rule
- ◆ Design includes two formwalls constructed of various materials and set a specific distance apart, depending on the height and width of the entry
- ◆ The area inbetween is remotely filled with a specifically blended concrete mix called StrataCrete
- ◆ Seals are designed for mine openings from 2.5 - 16 ft in height, and 16 - 40 ft in width
- ◆ Minimum thickness depends on the height and width of the mine entry
- ◆ The 120 psi seals are intended to seal off areas where the gas behind the seals is potentially volatile
- ◆ The 50 psi seas are intended for areas where no gas buildup is expected
- ◆ Plug Seals are ideal for areas with weaker, softer coal ribs as the increased coverage of the seal helps stabilize the ribs
- ◆ They are best suited for areas with minimum convergence

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Formwalls constructed using prestressed Rocrops™ and support clamps*

PLUG SEAL ADVANTAGES

- ◆ MSHA Approved under Final Rule
- ◆ Can withstand repetitive explosions up to 120 psi or 50 psi depending on application
- ◆ Can be constructed with a variety of form materials
- ◆ Constructed with high strength, specially blended concrete mix
- ◆ Concrete pumped remotely from underground location or from the surface via a bore hole



Plywood secured to supports



Formwall sealed with foam sealant and plastic prior to Stratacrete pumping



Completed Plug Seal

**Please note: Formwalls for the Stratacrete Plug Seals can be constructed from a variety of form materials*