

Strata AC Flow Stop™

Liquid Absorption and Stabilization

STRATA AC Flow Stop™ is a single component, super-absorbent polymer-based emulsion that absorbs water and excessive moisture in rock, muck, flowing sands, and saturated soils allowing the soil to be excavated without running. In wet or dry conditions, the volume of the superabsorbent polymer-based emulsion increases, or decreases, in a reversible and waterproofing manner.

APPLICATIONS

STRATA AC Flow Stop™ is used for sealing and consolidation work in presence of water. It works by injection via drilled holes or mixing with running sands or soils during tunneling or excavation operations. It is a highly fluid, hydrophilic product and it is applied for:

- Treatment of water infiltration and ground water inrush
- Soil consolidation
- Treatment of muck to allow for improved handling or conveyance.

ADVANTAGES

STRATA AC Flow Stop™:

- Is non-toxic for the environment
- Single component
- Very fast reacting hydrophilic polymer
- Is durable in wet and dry conditions

PRESENTATION

STRATA AC Flow Stop™:

- STRATA AC Flow Stop™ a single component polymer



CHEMICAL PROPERTIES

Specific Gravity	1.05 – 1.15
Color	White
Ionic Character	Anionic
Non-Volatile Solids – Average	68 – 72%
Form	Viscous Liquid

PACKING-STORAGE

STRATA AC Flow Stop™ is supplied in 25 kg pails or 200 kg drums. This product can be kept for 12 months in the intact original package if stored away from light or sunlight and at a temperature between 5° and 35°C.

All this information is given for documentary purposes. They do not constitute a specification and do not guarantee the use or dependence on existing patents. The information presented in this technical bulletin is given in good faith and is true and accurate to the best of our knowledge. No warranty or guarantee is expressed or implied regarding the accuracy of such data. It is the user's responsibility to determine the suitability for his own use of the information presented. No warranty or freedom is given regarding industrial property rights of the manufacturer, Strata Mine Services, or third parties. Updated 18 August 2025.

HANDLING INSTRUCTIONS

Wear Safety glasses with side shields, rubber or nitril gloves during handling and placement of the polymer. Refer to the Material Safety Data Sheet for additional handling information.

Not compatible with oxidizers.

Do not allow water to be introduced into pump systems or containers, this will cause the material to react and set up in the container or pump.

VISCOSITY

The viscosity of the STRATA AC Flow Stop™ will remain almost constant up to the setting point.

SETTING POINT

The gelling is slower at low temperature, but is still fast even below 5°C. Setting point occurs between 5 - 60 seconds.

DIMENSIONAL CHANGES OF THE GEL

When immersed in water, the unconfined gel can absorb up to 300 times its own weight of water in a few minutes without cracking. Under humid conditions, the volume of the gel remains approximately constant. In the absence of water, the gel shrinks slowly, without cracking. These dimensional changes are reversible and do not degrade the gel.

MANIPULATION

When handling STRATA AC Flow Stop™ the recommendations described in the Material Safety Data Sheet must be followed.

Do not dilute.

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