

Rapid Foaming Low Density Cavity Filling Foam

DESCRIPTION

ReZolution CF Foam is an economical (low density) **cavity filling** foam based on polyurea silicate chemistry. Its rapid foaming and flame resistance characteristics make this an ideal product to fill voids in coal seams and fractured strata. The maximum exotherm reached during foaming is only 90°C, well under the accepted level for use in coal mines. **ReZolution CF Foam** can be used in wet environments where it shows good adhesion to wet surfaces and will not absorb water.

USES

- Filling and stabilizing cavities in coal seams
- Filling and stabilizing cavities in fractured rock
- Consolidating other substrates such as sand and gravel

PRODUCT DATA

	CF Foam Part A	CF Foam Part B
Appearance	Opaque liquid	Brown liquid
Viscosity (20°C)	400 cps	200 cps
Density (20°C)	1.4 g/ml	1.24 g/ml
Flash point	Not applicable	> 200°C

ReZolution CF Foam is a two component system, with both components mixed in equal volume proportions (1:1 by volume) using a two-component injection pump coupled with a static in-line mixer head.

TECHNICAL DATA

On-set of foaming	~ 20 seconds
Foaming stops after	~ 45 seconds
Foam expansion factor	~ 25 times
Foam density	~ 45 kg/m ³
Foam stability	No Shrinkage

Please note : the above figures are those measured in the Polymer Group Ltd laboratory. Conditions in a mine may influence results.

REZOLUTION MINING POLYMERS

CF Foam

Rapid Foaming, Low Density, Cavity Filling Foam



ReZolution CF Foam

CLEANING INJECTION EQUIPMENT

For short breaks, pump only CF Foam Part A through the mixer.
For long breaks (eg storage, or after job is complete) pump clean water through Part A pump/injection lines; and pump clean engine oil through Part B pump/injection lines.

SAFETY PRECAUTIONS

Please refer to the Material Safety Data Sheets for full details. Although **ReZolution CF Foam** contains isocyanates, the cured product is inert.
Nevertheless, only experienced operators should mix and install this product.
Wear appropriate PPE and avoid contact with skin and eyes.
Mop up any spills with absorbent materials such as zeolite or sand, and dispose of in accordance with local regulations. Prevent unreacted product from entering drains.

STORAGE

12 months if stored in dry, unopened containers within temperature range +5° to +35°C.
Beware of frost sensitivity for **Part A**.

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REZOLUTION MINING POLYMERS

ReZolution Mining Polymers, a division of Polymer Group Ltd was established in 2013 with the goal of developing a high-performance range of mining industry strata reinforcing and strata control materials.

The technical group associated with ReZolution Mining Polymers comprises research and development chemists, experienced mining industry personnel, together with construction industry applicators.

Polymer Group Ltd is seeking world-wide representation through regional distributors who are experienced in supply to construction (tunneling and related infrastructure activities), mining material suppliers and geothermal/ground control professionals and contractors.



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