



## **ROCSIL™ FOAM**

### EXPANDABLE FOAM

- ◆ Rocsil™ Foam is a two component injection product applied using a metering pump and mixing gun.
- ◆ It is intended for cavity filling, air and gas sealing and consolidation of highly fractured strata
- ◆ When mixed in a volume ratio of 4 to 1, the resin and catalyst produce an immediate foaming reaction. This reaction is followed by a rapid expansion to as much as 30 times its original volume.
- ◆ After expansion, Rocsil Foam sets hard in minutes
- ◆ Major benefits of the products include rapid application, high expansion rate, high compressive strength and excellent antistatic properties.
- ◆ Rocsil Foam is fire resistant, making it effective for sealing off underground heatings and mine fires
- ◆ Applications include:
  - Longwall face cavities and rock falls
  - Erection of firewall at a safe distance
  - Crossing rock-fall zones in tunnels and mine workings
  - Rapid construction of stoppings and air seals
  - Injection into fractured strata and air leakage cavities to create an air-tight seal

# ROCSIL™ FOAM

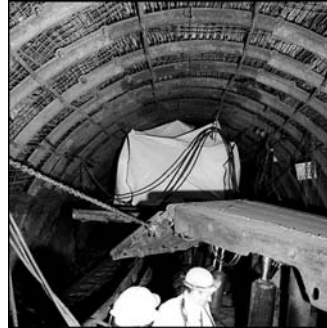
## EXPANDABLE FOAM



Rapid spray-on application



Ventilation Stopping built using Rocsil



Arch-support-Germany



Maingate Stopping - France

### BENEFITS

- ◆ Instant foaming action
- ◆ Very fast and safe cavity filling operation
- ◆ Load bearing strength achieved almost immediately
- ◆ Compressibility allows it to adapt to strata movement
- ◆ No flame propagation
- ◆ Fast setting and low density means minimal form work required
- ◆ High expansion results in less material required - as much as 70% less than foaming cement
- ◆ Reduced transport requirements

1. BASE COMPONENTS	RESIN	CATALYST
Density at 68 °F (g/cm <sup>3</sup> )	1.2	1.5
Mixing ratio (in volume)	4	1
Shelf life at 68 °F (months)		
- in cans	3	12
- in containers	1	-
Storage Temperature (°F)	41 - 68	41 - 104

2. POLYMERISED PRODUCT		
-Application Temperature (°F)	59°	77°
Reaction time	5:00	2:00
Expansion	20-30	20-30
Compressive Strength at 10% deformation (psi)	10 - 29	10 - 29
Fire classification	No Flame Propagation	No Flame Propagation



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