

# Rapid Set®

# CAVITY FILL

Pumpable Foamed Cement for Cavity Filling and Backfilling

## Manufacturer:

CTS Cement Manufacturing Corp./  
Rapid Set® Products  
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USA

## Distributor:

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Australia  
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## Product Uses:

Rapid Set Cavity Fill is a pumpable, foamed cement for filling underground cavities and void spaces. Rapid Set Cavity Fill can be used to fill longwall face cavities and rockfalls, for filling over the headgate in front of the face, to backfill over steel arches or false roof—providing positive contact with the mine roof, or for filling cavities to prevent methane buildup or to cushion further rock falls.

## Advantages:

- **Convenient:** single-component, pre-blended formula
- **High Yield:** more volume per bag means reduced transport of materials.
- **Fast:** sets quickly to minimize leakage in imperfect formwork.
- **Safe:** hydraulic cement based formula minimizes heat gain typical with high volume PUR foams.

## Product Description:

Rapid Set Cavity Fill is a single-component, pumpable foamed cement. When mixed with the appropriate amount of water, Rapid Set Cavity Fill forms a structural, low density, effective void filling material.

## Instructions:

Ensure that formwork is structurally sound.

Calibrate placer machine to combine 8.6 gallons (32.5 L) of water per 55 lb. (25 kg) bag of material (equivalent water/solids ratio of 1.3:1). Pump material through 1.25 in. (approx. 32 mm) diameter hose; minimum hose length 200 ft. (60 m), maximum hose length 1000 ft. (300 m). To raise compressive strength lower water/solids ratio. To increase yield (and lower compressive strength) increase water/solids ratio. Contact your CTS representative for relevant performance data.

## Physical Properties:

### Yield:

200 lbs / cu. yd.  
(119 kg / cu. m)

### Density of Cured Foam:

Approximately 460 lbs. / cu.yd.  
(273 kg / cu. m)

### Compressive Strength:

24 hrs: 150 psi (1.03 MPa)  
3 days: 200 psi (1.38 MPa)

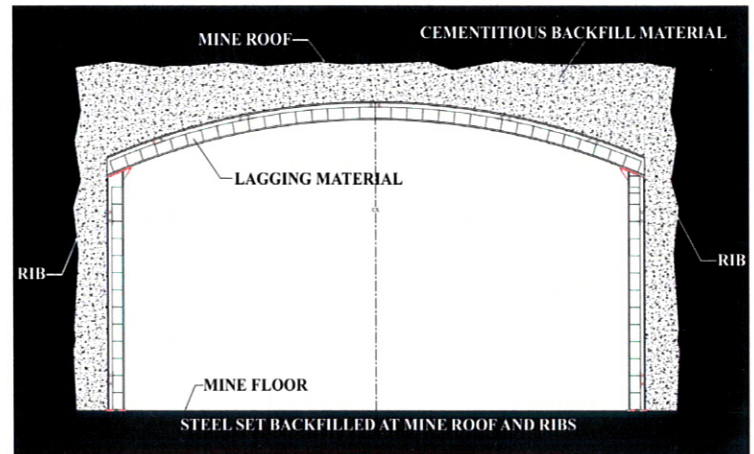
(measured physical properties may vary due to materials and ambient temperatures, jobsite conditions, etc.)

### Shelf Life:

One year when stored in cool, dry conditions.

### Packaging:

Rapid Set Cavity Fill is packaged in 55 lb. (25 kg) 3-ply polyethylene lined bags.



Backfill Graphic

## Limited Warranty:

CTS Cement Manufacturing Corporation warrants its material to be of good quality, and, at its sole option, within one year of sale, will replace defective materials or refund the purchase price thereof and such replacement or refund shall be the limit of CTS's responsibility. Except for the foregoing, all warranties, express or implied including merchantability and fitness for a particular purpose are excluded. CTS shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the material.

## Caution:

Rapid Set Cavity Fill contains cementitious materials and may cause irritation to lungs, eyes, and skin. Avoid contact. Use only in adequate ventilation. Do not breathe dust. Wet mixture may cause burns. Wear suitable gloves, eye protection, and protective clothing. In case of skin contact, wash thoroughly with soap and water. In case of eye contact, flush immediately and repeatedly with large quantities of water and get prompt medical attention. In case of difficulty breathing, remove person to fresh air. If difficulty breathing persists, seek medical attention.