

**Fields of Application**

In the mining industry:  
 - To prepare air stoppings and insulating barriers;  
 - To fill gaps behind the double timber;  
 - To fill gaps after rock slide in longwall workings and dog headings;  
 - To prepare packwalls;  
 - To seal and insulate excavations;  
 - For fire prevention;  
 In the construction industry and tunnelling technology, to perform other works where materials with such parameters need to be used.

**Advantages**

Non-flammable, easily pumped, foamable, with penetration properties and thus can fill even the smallest gaps and cracks.  
 In the ageing period, it does not require maintenance.  
 Strong inhibitor of the coal oxidizing process (class 4 in the 5 grade classification of the Central Mining Institute). Prolongs the coal self-heating process.  
 Has received a positive opinion for the application of the material in fire prevention.  
 The application of the product does not affect the readings of the mine atmosphere sensors.

**Product characteristics**

Porocem® C – Expandable mineral cement binder. Mixture of components made of natural ingredients; foaming-facilitating additives; additives used to obtain the strength required.

Technical parameter				
efficiency for w/b=2/1	Spreading loss time for w/b=2/1	Gelling time for w/b=2/1	Compressive strength: after 24 hours	Compressive strength: after 28 days
0.18 t/m <sup>3</sup>	app. 4 min 45 sec	app. 9 min	1.5 MPa	10,4 MPa



**Method of use:**

On site, dry powder is mixed with water and pumped to fill the gap. Recommended water/dry powder proportion from 1/1 to 2.5/1.  
 On mixing the POROCEM® C powder with water and after self-expanding of that mixture, the product has a semi-fluid consistence which is pumped to the gap.

**Product durability and storage:**

The product is packed in 25 kg paper bags, stacked on pallets, as a standard, of 40 bags, covered with foil, with a net weight of 1,000 kg.  
 The guaranteed durability is 6 months of the manufacture date on condition that it is stored according to the instructions. During transport and storage, protect the bags with the product against humidity and any possible mechanical damage.

**Information on safe use:**

Meets hygienic requirements and the requirements of the Polish and European Union laws on marketing, also for materials intended for use in underground workings of mining companies, in non-methane and methane spaces included in the explosion risk “a”, “b” or “c” degree and dust coal explosion risk class A or B.

The product is not a hazardous material within the meaning of the RID/ADR, IMDG, ICAO/IATA transport regulations. It is not subject to classifications or restrictions.

It does not pose environmental hazards