

Fields of Application

In the mining industry:
 - To prepare packwalls and protective zones;
 - To prepare anti-explosive and insulating barriers;
 - To fill gaps after rock slide in longwall workings and dog headings;
 - To fill gaps behind the double timber;
 - To fill and seal gaps and rubble heaps;
 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, with penetration properties and thus can fill even the smallest gaps and cracks.
 Strong inhibitor of the coal oxidising 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.
 Meets the norms for binders to prepare anti-explosive barriers. Approved to prepare anti-explosive barriers.
 Non-flammable: burning and glowing time 0 sec.
 In the ageing period, the material does not require maintenance.
 The application of the product does not affect the readings of the mine atmosphere sensors.

Product characteristics

Izolitex® C – high strength mineral cement binder.
 The key components of the mixture include mineral components (aggregates), cements, additives which improve mixing with water and facilitate obtaining the necessary strength.
 - Yield for w/b=1/1 is 1.32 m³/t.

Parameter			
Compressive strength after 28 days for w/b = 2.5/1	Compressive strength after 28 days for w/b = 1/1	Setting time for w/b=1/1	Softening coefficient
5,1 MPa	18,3 MPa	from 7 min to 18 min	0,91



Method of use:

In the application site, dry powder is mixed with water and pumped to the gap or sleeves or bags.
 On mixing IZOLITEX®C with water, the product has a semi-fluid consistence which is pumped to the gap to be filled.
 Normally, after approx. 7 ÷ 105 min – known as the gelling period (for w/b = from 1/1 to 2.5/1) – the substance sets, its spreading drops and it loses its penetration capacity while its strength rises.

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:

It 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.