

Fields of Application

In the mining industry:
 - To prepare mechanical lining on the double timber of the mine roadway arch support;
 - To prepare "full" mechanical lining on the sides and floors of dog headings;
 - To prepare packwalls;
 - To make protective zones for longwall excavations;
 - To fill cribs;
 - To fill gaps after rock slide; to seal caving;
 - To make injections in order to consolidate the rock mass; to consolidate rubble heaps;
 In the construction industry and tunnelling technology, to perform other works where materials with such parameters need to be used.

Advantages

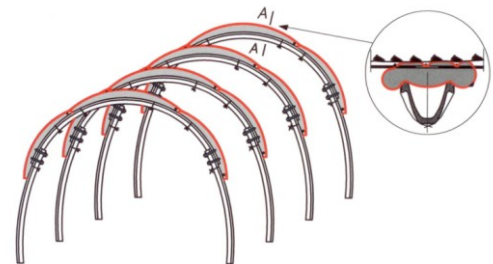
Very high mechanical strength; Strength parameters achieved quickly; High adhesion; ability to cement the rock mass.
 Strong inhibitor of the coal oxidizing process (class 4 in the 5 grade classification of the Central Mining Institute). Prolongs the coal self-heating process.
 In the ageing period, the material does not require maintenance.
 The application of the product does not affect the readings of the mine atmosphere sensors.

Product characteristics

PRESOLIT® 20/45 – mineral and cement material; its key components include mineral components (aggregates), cements, additives which improve mixing with water and facilitate obtaining the necessary strength.
 Yield: 1.73 Mg/m³.

Technical parameters

Compressive strength after 24 hours	Compressive strength after 28 days	Bending strength	Binding start time	Binding end time
20 MPa	45 MPa	app. 5 MPa	app. 4 hrs	app. 6 hrs



Method of use:

In the application site, dry powder is mixed with water and pumped to the sleeves or bags, e.g. big-bags, cribs, behind the support, and similar destination sites. On mixing with water, a paste-like substance is obtained which is pumped to the destination site. After the binding time, the material sets and receives quick strength gains.

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.