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Backfilling Mixture Preparation Using Milled Granulated Blast-Furnace Slag(Article)

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Backfilling mixture preparation technology using a cement-slag binder is developed for the Artem'evsky mine. It is shown that backfill with granulated blast-furnace slag reaches project strength at its fineness 80% of content milled down to -80 urn size. The authors analyze influence of milling fineness of granulated blast-furnace slag from different manufacturers on strength and rheological properties of backfill. The economic analysis of cost of binder in formation of load-bearing layer of backfill prepared using fly ash and milled granulated blast-furnace slag is performed. © 2019, Pleiades Publishing, Ltd.