

Frost Resisting and Waterproof Fine Slag Ash Concrete

This is a new composition and technology for fine grained slag ash concrete to be used for roads, roofs, and other structures subject to aggressive environments. The following composition produces strengths varying from 40 to 70 MPa: 25-29% of portland cement, 48-56% of fuel slag sand, 10-14% of fly ash, 0.09-0.10% of technical grade lignosulphanate, 0.045-0.050% of hydrosorbed liquid 135-157M, water and others have been developed. The frost resistance of the concrete is up to 1500 freeze-thaw cycles. This is patented under patent number Ru No 2008293 C1-1994. This concrete uses only wastes from thermal power plants, no natural aggregates are used. The cost is 1.5-2 times lower than usual mixtures, without considering the economic influences on ecology and of increasing life spans.

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