By-products of dolomite carrier are multi-fraction mix (range of sizes up to 8 mm) containing large amount of fine particles. The goal of this research is to elaborate effective concrete mixes with maximum content of dolomite by-products. Experimental mixes are based on pure dolomite aggregate as well as its combination with traditional aggregate and special admixtures. Produced concrete is characterized with compressive strength up to 60 MPa and good freeze-thaw resistance. Small fractions of dolomite improve mix workability and allow to achieve self-compacting properties of concrete mixes.

In the frame of experimental work some variants of practical use were elaborated, such as architectural exterior panels and composite blocks with incorporated additional heat insulation. Utilizing of dolomite by-products allow to use local resources more rationally and to produce high performance concrete with high added value.

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