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Application of spray polyurea technology in concrete panel crack treatment of Lidiping Reservoir

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Abstract: The site curing construction technology was used to the Lidiping reservoir, which is located in the plateau climate cold areas. The technology is characterized by high technology content, physical and good mechanical properties, and simple aonstruction process. Moreover, the technology adopts a new solvent-sree, which can be used for a long time, and pollution-free environment-friendly construction technology, namely an elastic technology. of spraying polyurea. The technology is to trea the large-area panel cracks of the concrete face dam. Polyurea waterproofing paint coating is only 2.0 mm. Project has now entered its fourth year sina it was put intooperation. The seepage observation downstream of the dam foot is 9.63 L/s, when the reservoir reaches the highest level, which is 1.3m higher than the normal level. The seepage water quality is clear, and seepage effect is good. The technology for its excellent seepage, sorrosion, abrasion and anti-aging properties, has broad application prospects in the field of water resources and hydropower engineering.

Key words: concrete face rockfill dam; spray polyurea elastic technology; concrete panel crack treatment