



Beale Air Force Base Case Study

Same-Day Repairs Keep Military Airfield Open

In 2013, Beale Air Force Base, located near Marysville, California, began a project to repair concrete spalls on its runway. Time was a critical factor. The airfield had to receive traffic on the very same day repairs would be made.

Diversified Concrete Cutting of Sparks, Nevada, was contracted to perform the 485 square feet of spall repairs. Based on experience with similar repairs, Diversified recommended D.S. Brown's Delpatch™ Elastomeric Concrete as the solution for all spall repairs on the runway. Delpatch is a two-part polyurethane patching material mixed with proprietary aggregates. Delpatch provided the right combination of strength and elasticity, while offering high impact-resistance needed for a runway.

Repairs were made in partial depths, typically 2 to 4 inches. In some areas, workers had to repair up to 9 inches. Because of Delpatch's fast setting time, the concrete had to be completely ready to receive the patch before Delpatch was mixed. Workers mixed the two-part Delpatch with a drill in 5-gallon buckets.

When fully mixed, after about a minute, workers poured Delpatch into the repair area, brought it to grade and troweled it to make it even. Within an hour, Delpatch was ready for airfield traffic, which proved essential to the military base's requirements.

"The repairs have made the runway much safer for aircraft," said Gerald Pannell, Civil Engineer, Beale AFB. "We have established a higher standard for spall repairs by using Delpatch material and the subcontractor Diversified Concrete Cutting from Sparks, Nevada."

Following the successful completion of this project, Beale AFB has continued to use Delpatch Elastomeric Concrete for other critical airfield concrete spall repairs.



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