



ENVIRONMENTAL PROTECTION, INC.

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Underwater PVC Installation

Lock 24 on the Mississippi River is located about 60 miles north of St. Louis, MO. Constructed more than 50 years ago, the unused second lock gate is in need of maintenance and repair. An existing rock dam protects the gate from the ravages of the Mississippi, but the U.S. Army Corps of Engineers decided to take no chances while the repair work is being done.



Midwest Foundation Corporation has the contract to repair the gate and other work at Lock 24. The Corps of Engineers specification calls for a 40 mil PVC geomembrane liner to be placed on the face of the rock dam to prevent any seepage of water which might destabilize the dam while the gate is out of service. Midwest used a one piece, 81' x 120' panel of 40 mil PVC from EPI for this installation.

The panel was unfolded and attached with a 2x4 batten to a 100' long I-beam. The liner was then lashed to the beam for transporting from the staging area to the 110' wide lock.

The barge, crane, beam and liner were moved into

position at the upstream side of the rock dam. The upper 120' edge of the liner was anchored to a concrete sidewalk along the top



of the dam. The panel was then positioned by lowering the beam along the face of the dam underwater until the full width of the panel was unfolded in place. Each end of the liner was then attached with batten to the walls



of the Lock on each side to secure the installation.

For more information about this or any other project, call or email EPI.