



## SAFE ENCASEMENT SYSTEMS-MIDWEST

CASE HISTORY NO. 02-2

MARCH, 2002

### ENCASEMENT OF NORTHFIELD MN SHOOTING RANGE

**CHALLENGE:** A Northfield MN shooting range in the basement of the police department is under conversion to property storage space. After the old sound abatement surfaces are removed and discarded, the surfaces (porous concrete) are wiped and lead contamination is found nearly everywhere. Attempts to clean this surface to eliminate the contamination suggest a never-ending struggle due to the porous nature of this surface.

**SOLUTION:** Accordingly, a decision was made to encase the walls using SES-110 penetrating-stabilizer (primer) and SE-120 protective skin (topcoat). A careful inspection was made for the presence of efflorescence, which led to one area being power-washed to remove these salts. Then the primer was spray applied at 10 wet mil film thickness and allowed to dry until it became clear. After this the topcoat was also spray applied at 10 wet mil film thickness. This resulted in an encasement system that offered improved air barrier, sound barrier, and water vapor retarder properties, and most importantly one that is now abated to prevent the release of lead into the environment. And all at a cost of \$0.60/sq.ft. for materials. This environmentally-friendly coating system was installed by Mavo Systems of Minneapolis, MN.



Before



After