



## Case Study: American Crystal Sugar

American Crystal Sugar is one of the leading beet sugar producers in the country. Since 1899 they have been an integral part of America's food industry. They wanted a seamless, moisture proof flooring system in their locker room that was aesthetically pleasing and durable. Certified Contractor Brad Vollrath with Epoxy Flooring Systems in Grand Forks, ND worked closely with American Crystal Sugar's architect and engineer on the project to make sure a suitable coating was specified. The system they decided to spec was ICO Primer LV, ICO Quartz 120 DB and also incorporated ICO Quartz Cove.



The locker room was 2,800 sq/ft with 1,000 linear feet of 6" cove. They prepped the floor by diamond grinding it to remove the existing coating and then shot blasted to achieve a clean sound surface. They then applied the 6" ICO Quartz Cove and patched the larger cracks and holes using ICO Gel. The ICO Primer LV was applied with roller at 250 s/f per gallon, the highly penetrating primer helped seal the concrete and provide an excellent mechanical bond. Next they applied the first base coat of resin at about 80 s/f per gallon and then broadcast gray quartz into the resin at about 50lbs per 100 s/f. When the first broadcast cured they applied another coat and a second broadcast of gray quartz aggregate. The second broadcast was sanded to help achieve the desired texture. Then they used the crystal clear epoxy topcoat ICO Sealer on both the floor and the cove. The logo was installed during this final step and embedded in the sealer coat. American Crystal Sugar has been extremely pleased with the decorative look and performance of their new floor.

