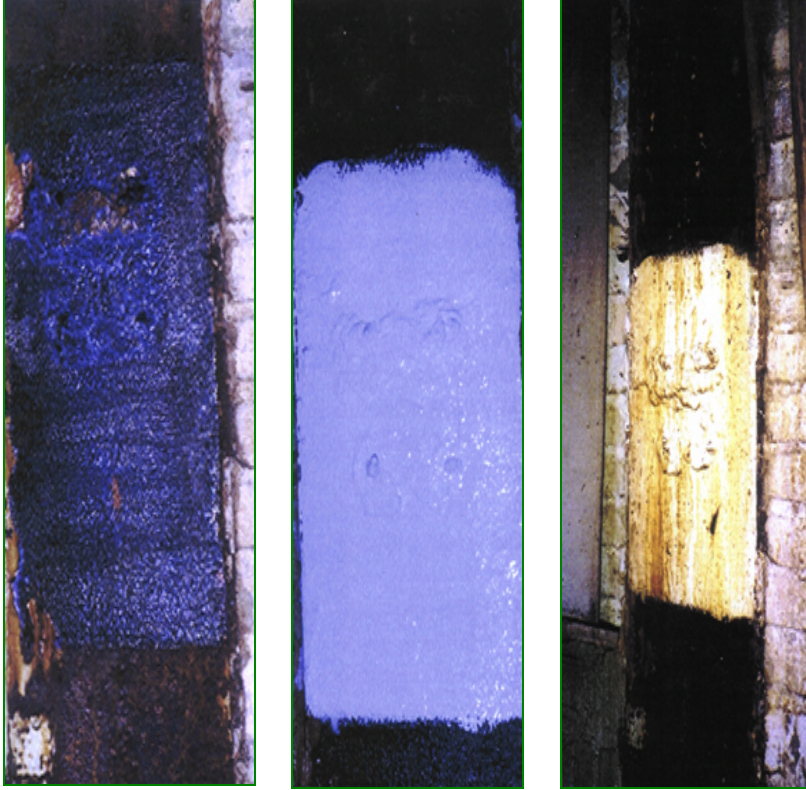




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Safeguarding People
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American Crystal Sugar Moorhead, MN CH-00-5



*Test patch on column integral with
exterior wall pictured above.
Completed project pictured below*



Challenge: Early testing of the corrosion-inhibiting primer was done at the American Crystal Sugar plant in Moorhead, Minnesota. Because of the nature of the operations carried out in this plant, very high humidity conditions prevail and severe rusting is prevalent throughout many areas of the plant. Three test patches were applied in the summer of 1997 on different types of surfaces. No surface preparation whatsoever was carried out other than the customary pressure-washing of the entire plant that is done at the end of a processing season in May. One surface was a badly rusted water pipe, a second consisted of a column integral with an outside masonry wall (photos on left) and the third was a free-standing column which was the only one of the three test patches where there was significant paint remaining. Referring to the photos on the left, the left and center photos show the surface after the application of primer and topcoat, respectively. The right photo is the test patch after three years (the staining on the surface is rust from above, not bleed-through).

Solution: After observing the performance of these test patches, the first of many projects was completed in 1998, again using SE-110-CI primer followed by SE-120 topcoat (refer to photo on left). Both coatings were spray applied at 15 wet mils. This environmentally-friendly encasement system was installed by Swanson & Youngdale, Inc. of Minneapolis, MN.