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# Domestic Coatings Consulting Services Nova Chemicals



**Client/Owner:** Nova Chemicals

**Project Location:** Multiple Locations in United States and Canada

CCC&L was engaged to assist Nova Chemicals in determining the cause(s) of interior coating failures in 1,540 new covered hopper cars and to assist in recoating the cars at various repair facilities in the United States.

The covered hopper cars had been fabricated and coated at a state-of-the-art facility near Toronto, Canada. The cars were designed to carry high purity plastic pellets destined for medical usage. Shortly after the cars went into service, coating debris was found in the plastic pellet cargo, and all of the cars were taken out of service. Investigation of the problem by CCC&L determined that the coating debris consisted of the top coat of the two-coat epoxy system applied to the car interior surfaces.

CCC&L personnel visited the car fabrication shop on several occasions and physically examined many of the affected cars. The cause of the internal coating system failure was ultimately determined by CCC&L.

Nova Chemicals also engaged CCC&L to prepare the recoating specification for all of the affected cars and to ensure that the multiple repair shops involved in the relining work executed the work in accordance with the project specification.