

Five Star® HP Epoxy Grout - Port of Seattle, Terminal 18

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Five Star Solutions



Grouting of crane rail

Photos: Jill Merriman/Masco



Mobile headbox designed for pouring HP Epoxy Grout

Five Star® HP Epoxy Grout - Port of Seattle, Terminal 18 North Apron Upgrade

In 2002, an expansion project began that would make Terminal 18 at the Port of Seattle the largest container terminal in Seattle and one of the largest in the Northwest. From 2005 to 2008, further renovations began that would enhance Terminal 18's capabilities by modernization and increasing its abilities to handle higher container volumes.

The plan was to add eight Post-Panamax cranes to handle higher container volume. This would also include a new 100-foot gauge landside crane rail to increase vertical load capacity for an existing waterside crane rail.

To prepare for this work, over 4000 linear feet of new crane rail had to be installed. The epoxy grout chosen to grout the new rail and the Post-Panamax cranes had to meet very specific performance criteria, set by the port.

Five Star® HP Epoxy Grout was selected for use on this project. Five Star Epoxy Grouts have a long and successful history in crane rail grouting and have been used successfully in the past by the Port of Seattle and its contractors.



Pouring Five Star® HP Epoxy Grout in mobile headbox

The contractor handling the pour was Manson Construction. Due to cool Pacific Northwest temperatures, the grout was kept in heated containers onsite for several days prior to use. The material was mixed onsite and by the time of the first placement, the temperature was in the 50s. The concrete surface was clean and blown out before application.

The contractor had designed an innovative mobile headbox to grout the crane rail properly and efficiently. The application of Five Star HP Epoxy Grout was a seamless and overall impressive pour according to Jill Merriman at Five Star Products distributor MASCO in Seattle. The entire job was in three phases and a total of 1,800 cubic feet of Five Star HP Epoxy Grout was used during the three-year span of this project.

The Five Star team did another outstanding job with this project. Continuous onsite quality control testing was performed on Five Star HP Epoxy Grout throughout, and all field QC test results met or exceeded Port of Seattle requirements.



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