



## Technical Service Bulletin

January 14, 2016

### Fading of Underground Green Phenolic Epoxy Powder Coating

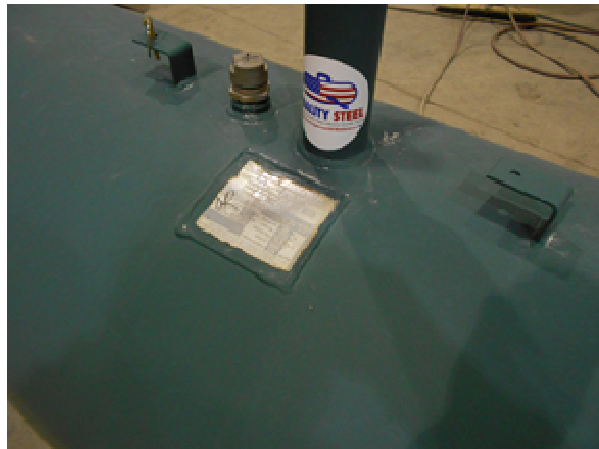
QSC's Underground Green phenolic epoxy powder coating is a functional coating designed for application to underground LP storage tanks. This coating is applied to our underground (UG) and above/underground (AG/UG) tanks produced at our Fremont, OH facility. This coating was designed for/is intended for direct burial of underground LP storage tanks. Extensive performance testing was completed on this coating and it has been in use on our tanks for over a decade. This coating has excellent "barrier" properties (permeability to water, electrolytes, and gases) and therefore provides outstanding corrosion protection required for burial of steel tanks.

QSC's Underground Green phenolic epoxy powder coating is a functional coating for tanks to be buried, and is not intended for above ground tanks. Underground tanks with this coating that are exposed to sunlight will experience chalking and significant loss in gloss/fading with NO impact to coating performance. Chalking or fading of this coating on tanks exposed to sunlight (UV light) is expected and does not indicate a defect or failure of the coating. Pictures have been included in this bulletin to illustrate chalking/fading to be expected and typical for this type of epoxy coating when exposed to direct sunlight. Depending on conditions, chalking/fading could begin to occur within 30 days of direct exposure to sunlight. A high film build has been applied to our green UG and AG/UG tanks to negate potential weathering effects that could be associated with chalking of the coating.

**New UG Tank - Glossy**



**Effect of sunlight on UG Tank**





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New AG/UG Tank - Glossy



Effect of sunlight on AG/UG Tank



As with any steel tank to be buried, when these tanks are prepared for burial, particular caution should be taken to touch up any areas on the coated tank surface that may have incurred damage to the coated surface during shipping, handling, storage, transport to job site, or preparation for installation. Those areas can be touched up with a two component epoxy touch up kit, available through Quality Steel, or with a coal tar epoxy.