



## 5.4 Concrete Form Release Agent

### Description:

Release agents are applied to the form contact surfaces to prevent bond and facilitate stripping. They may be applied to the form before each use, at which time care must be exercised to prevent coating adjacent construction joint surfaces or reinforcing steel. A good release agent should provide a clean and easy release without damage to either the concrete face or the form, while contributing to the production of blemish free surface. It should have no adverse effect upon either the form or the concrete surface. When applied improperly, form oil may prevent bond between the concrete and reinforcing bars or weaken joints by preventing bond of old to new concrete.

### Data to be collected and Analyzed:

1. Review concrete placement specifications.
2. Review Quality Control (QC) specifications.
3. Review QC reports.

Verified Supporting Evidence: None

### Verified Refuting Evidence:

- a. Project specifications (FM 5.4 Exhibit 1 – Specification SP-5618) require that forms are thoroughly cleaned after each use, and surfaces in contact with concrete be coated with form oil which has been approved by the OWNER.
- b. Project QC specifications (FM 5.4 Exhibit 2) included requirements for verifying form oiling and cleanliness of all surfaces prior to concrete placement.
- c. QC reports (representative example in FM 5.4 Exhibit 3) show that inspectors followed the established QC specifications and monitored proper form coating.
- d. Exhaustive review of Non-Conformance Reports (NCRs) found no evidence of improper application of form oil during the construction of the containment building.

### Conclusion:

Form release agents were applied properly and were not a contributing factor to the delamination.

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Page 1 of 1

801/108