

COMMANDconcrete Materials Manager (CC-MM)

Description

The Materials Manager is a concrete mix management and maintenance tool that is seamlessly integrated into COMMANDseries. The Materials Manager module may serve as the initial point of entry for concrete mixes or as a means to alter existing mixes. The module permits altering the constituent quantities of a mix, substituting one constituent for another, or replacing all or part of a constituent with another by quantity or percentage. Generic "lab" mixes can be created and later assigned specific constituents at each plant. Mixes maintained centrally with these tools can then be downloaded to the batch computers at the plant.

Together, these features allow you to compensate for changes in material characteristics, and return control of mix proportioning to its rightful owner - your QC department.

Features

Maintain and alter mixes

- Enter new or alter existing mixes through the Mix Design feature. Mix yield, coarse to fine ratio, and water cement ratio will be dynamically displayed as you edit the constituent quantities. The specific gravity of each constituent is also displayed, along with its unit volume and percentage of total volume in the mix.
- Specify admix quantities in terms of "dosage," i.e., a number of units per unit of cement or cementitious materials, instead of absolute quantities like ounces per yard or milliliters per meter.
- Maintain central control and storage of mixes. Quickly and effortlessly modify mixes at a central location and transmit the changes to each plant's batch controls. (This assumes that your COMMANDseries system and batch controls are equipped with appropriate Batch Control Interface Modules.) Quickly build or restore mix files at the plant in the event of a batch computer failure or new installation. Minimize errors by reducing or eliminating data entry at the plant.

Design generic mixes

- Use the generic mix feature to create generic mixes at a "lab" location, and then specify which specific constituent is to be substituted at each plant. This is especially useful when material sources change often or are different at each plant.
- Maintain mix volume yield by automatically compensating for differences in specific gravity between materials at different plants.
- Quickly substitute constituents at a plant if the source changes. Download the new proportions to batch computers.

Replace constituents

- Mass-modify the constituents in a selected group of mixes. Mixes can be selected by plant, measurement system (metric vs. U.S.), item code, batch code, strength class, item category, and constituent code. For example:
 - Replace a constituent in its entirety with a like constituent. Material Manager calculates the new constituent volume to maintain constant yield.
 - Replace part or all of a constituent with another by an amount or a percentage. Material Manager calculates the new constituent volume to maintain constant yield. This is useful for adding flyash or for blending cements, sands, or other materials.
 - Adjust the amount of a constituent up or down by an amount or a percentage. Material Manager will compensate for volume changes using either the first fine aggregate or first water constituent in the mix.
 - Add a constituent to every mix in the group.
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Reporting

- Whenever a mass modification is initiated to a group of mixes, a report is produced so that the changes can be verified and accepted. Failure to accept the report cancels the change.

Prerequisites

- COMMANDseries 5.x or later.

Notes

- None.
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