

SeeMIX, SeeSTAT, and SeeMAT for Concrete Mix Design

These three computer programs comprise a package for the design of concrete mixes. SeeMIX provides a vehicle to conveniently specify a combination of various concrete materials wherein critical factors such as concrete workability, finishability, uniformity, and strength can be addressed. The program calculates mixture proportions and displays the results using charts, graphs, and tables. The user is then able to see the character of the proportioned mixture and judge how the concrete will likely perform. The program also assists in making adjustments in the mix proportions that will meet a given project's objectives. The program allows the user to use several sizes in a concrete mix and allows blending of different piles of aggregates, with the goal being to get close to the Fuller's maximum density curve. After the mix has been designed using seeMIX, laboratory tests are still needed to validate the mix design and make adjustments for voids, slump, and other factors. A mix design for one geographic area will require adjustments if it is to be used in another area. SeeSTAT evaluates various parameters of the seeMIX program and seeMAT documents and analyzes seeMIX materials data. These programs were developed by Mr. James M. Shilstone, Sr. and Mr. James M. Shilstone, Jr.

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