The Superpave 2 software assists in the design, production, and construction of asphalt concrete pavement mixes in accordance with the Superpave procedures, including the recently adopted AASHTO PP28-99 and MP2-99 changes to the volumetric mix design procedure. The IBM-compatible (Windows 95/98/NT) software integrates database, engineering analysis, and reporting functions for maintaining paving material inventories and for selecting suitable materials from these inventories for use in paving project mix designs. It also provides the capability to evaluate statistical QC/QA data for Superpave production and placement. Superpave 2 consists of five modules:

- Volumetric Mix Design
- Field Quality Control (QC)
- Field Quality Acceptance (QA)
- Test Data Entry
- Binder Verification

Material inventories are maintained in Microsoft Access databases for storage of data that is used consistently across mix designs and/or projects:

- Binders
- Aggregate stockpiles
- RAP stockpiles
- Additives (solid and liquid)

Stockpile percentages can be set manually or the program can optimize the percentages to match a target gradation as closely as possible for a given set of aggregate stockpiles. Gradation and estimated specification conformance are updated dynamically during aggregate blending.

Binder PG selection is based on project longitude/latitude and weather data from the US and Canada, included as part of the Superpave 2 database.
Mix volumetric properties are based upon the Superpave gyratory compactor. Specific gravity and compaction data can be entered directly or via laboratory test data sheets.

Gyratory data from commercially-available gyratory compactors can be imported directly into the program. For added flexibility, the user can define custom gyratory compactor data file formats (e.g., for future gyratory compactor products).

The Superpave 2 mix design software automatically evaluates the design aggregate structure and interpolates the design binder content and other target mix design parameters.

All of the recently approved mix design changes in the AASHTO PP28-99 and MP2-99 standards are included in the Superpave 2 software.

The Superpave 2 QC and QA modules provide statistically based control charts and Percent Within Limits (PWL) calculations. An arbitrary number of properties can be tracked in the QC or QA process. Control charts