

**MANAGING
ASPHALT
PAVEMENTS**
CONFERENCE AND TRADE SHOW
MAY 15-17, 2023 ★ WACO, TEXAS

WELCOME!

Please check your App for scheduled Sessions!

**MANAGING
ASPHALT
PAVEMENTS**
CONFERENCE AND TRADE SHOW
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Fundamental Terms and Concepts

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The background of the entire slide is a light gray, stylized map of Waco, Texas, showing a grid of streets and some larger building footprints.

MANAGING ASPHALT PAVEMENTS

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Fundamental Terms and Concepts

General Session

EPD
B-Boy, C-Cat, D-Dog
Sustainability
HMA
Prime
PPE & TCP
Tack
BMD
Air Voids
LCC/LCA
Full Depth
Density
Straightedge
PG Grades
Subgrade
Flex-Base
Ride
Quality
TOM
Award Winning Pavements
SAC
Perpetual Pavement
Superpave & Dense Grade
1A's, 1B's & SB's

Terminology and Nomenclature

COARSE AGGREGATE - Aggregate retained on the 2.36mm (No. 8) sieve.

COARSE-GRADED AGGREGATE - One having a continuous grading in sizes of particles from coarse through fine with a predominance of coarse sizes.

COARSE-GRADED AGGREGATE - One having a continuous grading in sizes of particles from coarse through fine with a predominance of coarse sizes. The distribution such that when it is compacted, the void spaces are relatively small, and the void spaces, expressed as a percentage of the total space occupied by the material, are relatively small.

FINE AGGREGATE - That passing the 2.36mm (No. 8) sieve.

FINE-GRADED AGGREGATE - One having a continuous grading in sizes of particles from coarse through fine with a predominance of fine sizes.

OPEN-GRADED AGGREGATE - One containing little or no mineral filler in which void spaces in the compacted aggregate are relatively large.

WELL-GRADED AGGREGATE - Aggregate graded from the maximum size down to filler with the object of obtaining an asphalt mix with a controlled void content and high stability.

AIR VOIDS- Empty spaces (air pockets) in a compacted mix surrounded by asphalt coated particles, expressed as a percentage by volume of total compacted mix.

APPARENT SPECIFIC GRAVITY, (G_{sa}) – the ratio of the mass in air of a unit volume of an impermeable material at a stated temperature to the mass in air of equal density of an equal volume of gas-free distilled water at a stated temperature.

ASPHALT* - A dark brown to black cementitious material in which the predominating constituents are bitumens which occur in nature or are obtained in petroleum processing. Asphalt is a constituent in varying proportions of most crude proportions.

ASPHALT BINDER- A term utilized in the Superpave Mix Design System to classify the grade of asphalt cement used in an asphalt mix based on expected performance under specific environmental conditions (high and low temperatures) and anticipated traffic loading. It can be either modified or unmodified asphalt cement as long as it complies with AASHTO M 320, Specification for Performance Graded Asphalt Binder.

ASPHALT CEMENTS * - A fluxed or unfluxed asphalt specially prepared as to quality and consistency for direct use in the manufacture of asphalt pavements.

Available at
TexasAsphalt.org
under
Resources

OK, Now you know what is a...

*HMA SP-C SAC-A PG76-22 on a TRAIL
over a SP-B PG64-22 on a lime-treated
Subbase on top of a natural Subgrade.*

Got It?

Questions?